STATE OF MONTANA PRIORITY PRIMARY ROUTE STUDY

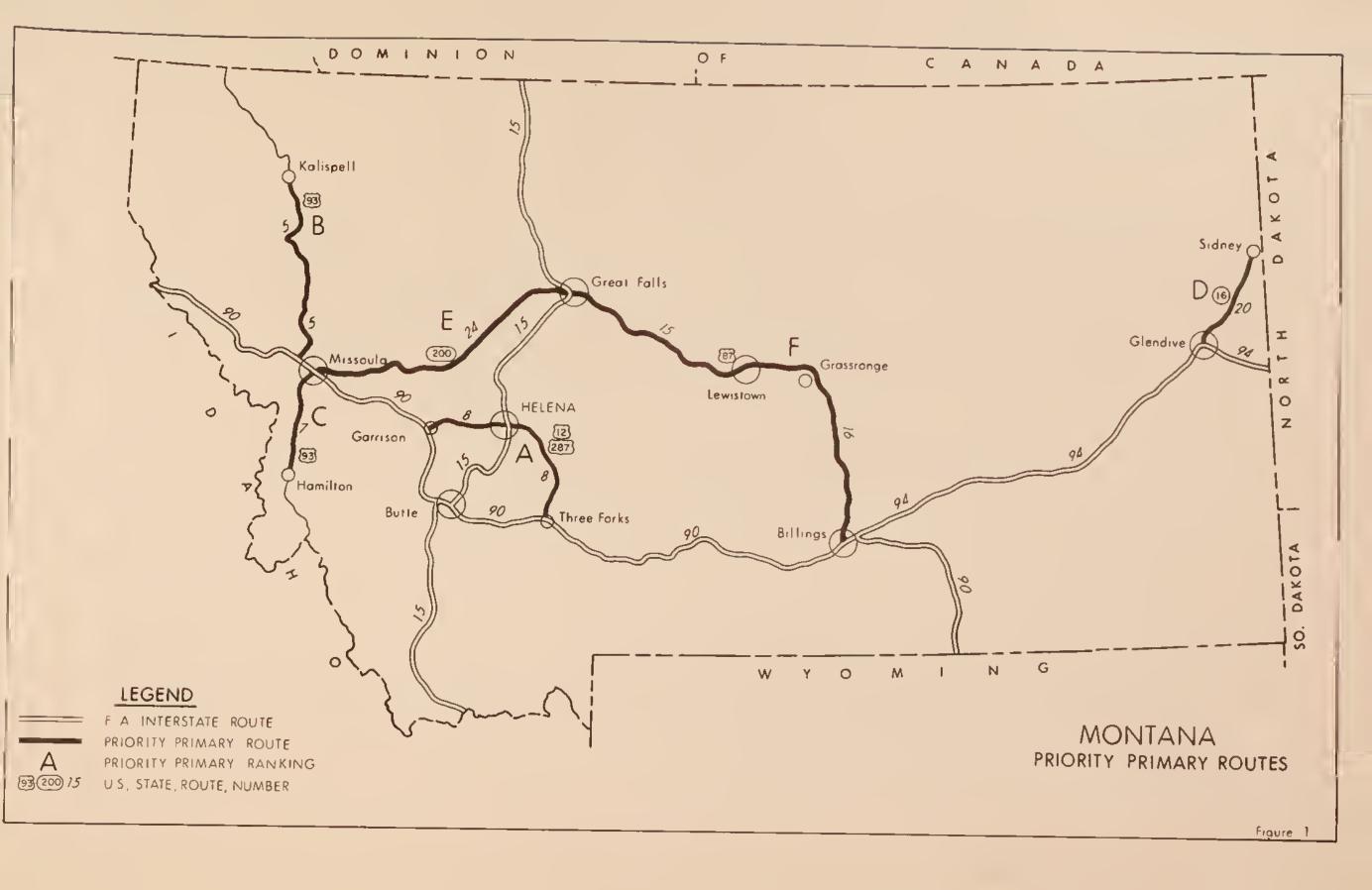
(DATA AS OF DECEMBER 31, 1973)

PREPARED BY

MONTANA DEPARTMENT OF HIGHWAYS
IN COOPERATION WITH THE
U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

IN ACCORDANCE WITH
SECTION 147, TITLE 23, U.S. CODE HIGHWAYS





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STATE OF MONTANA

	Route Identi Letter & Nu					Length,
Route Federal-Aid Oesignated		ed	Route Description	Miles		
Letter	Route No.	U.S.	State	County		
A	8	12			U. S. 12 from Jct I-30 et Garrison to Jct I-30 et Three Forks	108 29 2
B	5	93			U. S. 93 from Jct I-40 at DeSmet to Jct U. S. 2 in Kalispell	112.0
С	7	93			.U. S. 93 from Jct FAS 269 in Hamilton to Jct 1-90 in Missoula	47,6 262-
- D	20		16		Montana 15 from Jet I-94 at Glendive to Jet Montana 200 in Sidney	51.5
*E	24		200		Montana 200 from Jet I-90 Bonner Interchange to Jet I-15 at Vaughn	148.0
•F	15 & 16	87			Jet I-15 in Great Falls to Jet I-90 in Billings	232.0
Total						69927

• In excess of 5% mileage



OMB No. 04-R-5652 Sheet 1 of 3 Sheets

STATE MONTANA

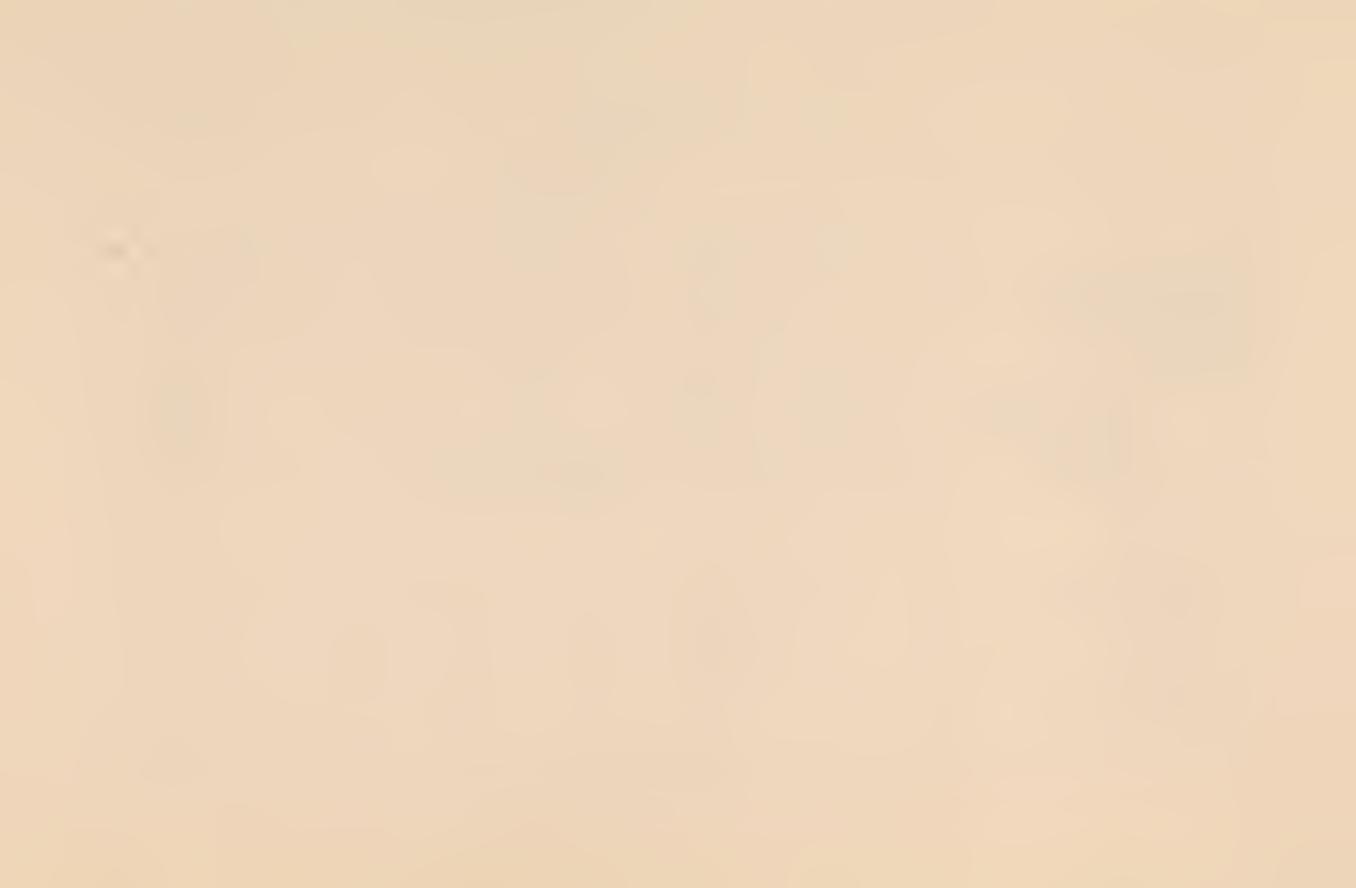
FAP Route No. ___8

Designated Route No. US 12 (U.S. State or County)

Route Letter A

Route Priority Ranking _____01

Houte Priority Hanking									
Item					Estimate Section	ıs			
140111	A-1	A-2	A-3	A-4	A-5	A=6	A-7		
Condition Code and Construction Schedule	2	3	2	1	,	A-0		A-3	A-9
Section Length, miles (0.1)	4.1	7.3	11.9	2.4	1 1 7	2	2	2	3
Class: Rural, Small Urban or Urbanized (R, S, U)	R	R	R	R R	1,7	0	5.3	1.1	2.8
Urban Area I.D. (Name and Code)						R	R	S	S
No. of Lanes (Existing - Ultimate)	2-2	2-2	4-2					Helena 0500	0590
Median (Existing - Ultimate)	U-U	U-U	U-U	U-U	4-4	2-4	2-4	2-4	4-4
Degree of Access Control (Existing - Ultimate)	N-N	N-N	N-N		U-U	<u>U-U</u>	U-D	U-D	D-D
Accident Data (Injuries - Fatalities)	4-0	6-0	12-3	0-0	N-N	4-P	N-P	N-P	N-N
Traffic - a. Base Year (1972)	1,100	1,400	1,500		0-0	8-0	5-6	1-0	9-2
b. ADT Estimate Design Year (1995)	2,400	2,900	2,900	1,400	1,400	1,400	1,800	2,000	8,200
c. DHV Estimate Design Year (1995)	310	380		3,100	3,100	ارز ,100	4,100	4,500	18,100
d. D Directional Distribution Factors	55	55	380	400	400	400	530	590	1,810
e. T Percent Trucks (DHV)	10	10	55	55	. 55	55	55	60	60
f. V/C Ratio (0.00)	0.15	0.15	0.19	10	10	10	10	10	02
Work Classification	0.27	0.27	0.19	0.05	0.06	0.27	0.23	0,17	0.00
1. Preliminary Engineering		24		Estima	ated Cost (1,000	Dollars)			
2. Right-of-way		K4							78
a. Acquisition	35	-	92						
b. Relocation			/~			79	270	55	9
3. Grade & drain; minor structures	600								
4. Subbase, base, surfacing, shoulders	589	11	817			3,062	1,730	364	4.80
5. Interchanges	360_	213	067			1,226	770	303	489
6. Major Structures over 500'								70)	
7. All other major structures								 	
8. All other items	00		224				156		
9. Subtotal, lines 3 to 8	92	22	263			344	109	73	
10. Construction Engr. & contingencies	1,061	246	1,991			4,632	2,851	740	489
10% of Line 9	106	25	3.000					140	409
11. Total cost of construction	100	47	199			463	285	16	49
Lines 9 and 10	1,167	271	2 100						
12. Total Estimate cost, Lines 1, 2 and 11			2,190			5,095	3,136	814	538
	1,202	295	2,282			5,174	3,406	869	625



OM8 No. <u>04-R-5652</u> Sheet <u>2</u> of <u>3</u> Sheets

STATE MONTANA

FAP Route No. __8

Designated Route No. US 12
(U.S. State or County)

Route Letter ___A

Route Priority Ranking ______

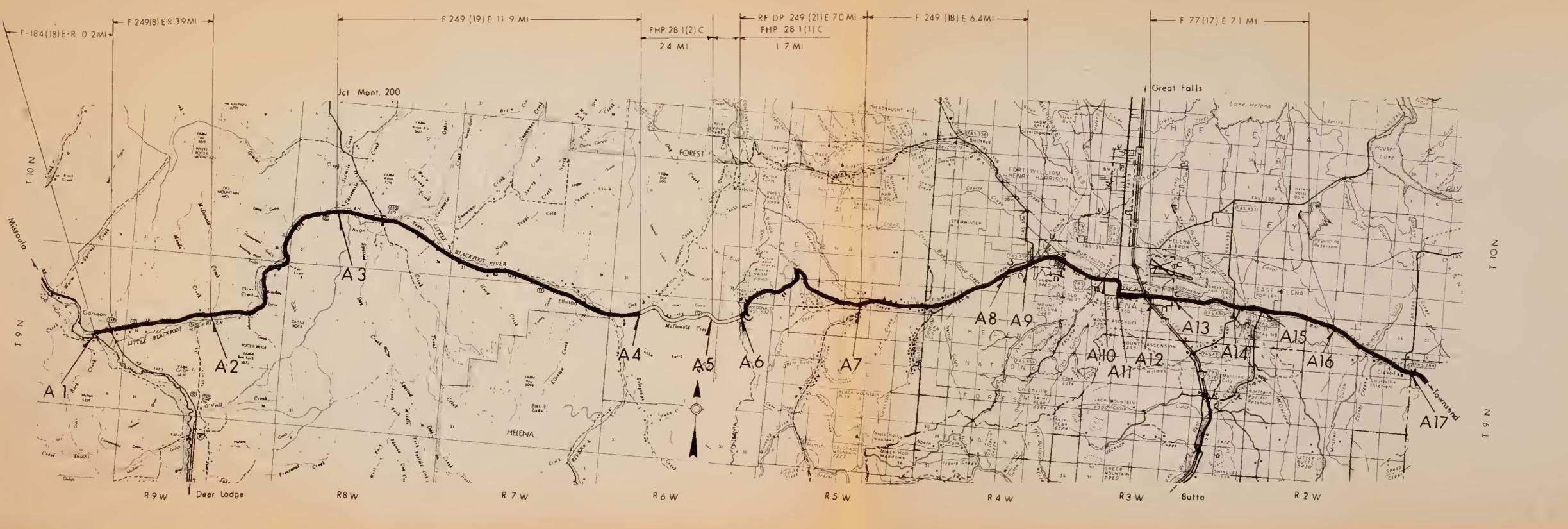
	Estimate Sections										
I tem	A-10	A-11	A-12	A-13	A-14	A-15	A-16	1.36	T		
Condition Code and Construction Schedule	3	3	2	2			N-10	A-17	A-18		
Section Length, miles (0.1)	1.1	1.6	0.5	2.0	2	2	3	3	3		
Class: Rural, Small Urban or Urbanized (R, S, U)	S	S	S	R	1,2	3.4	2.7	9.4	11.5		
Urban Area I.D. (Name and Code)	0590	0590	Helena 0590		R	R	R	R_	R		
No. of Lanes (Existing - Ultimate)	4-4	4-4	2-4	2 /							
Median (Existing - Ultimate)	U-U	D-D	V-D	2-4	2-4	2-2	2-2	2-2	2-2		
Degree of Access Control (Existing - Ultimate)	N-N	N-N	N-N	<u>U−</u> Đ	U-D	<u>U-U</u>	<u>U-U</u>	11-11	11-11		
Accident Data (Injuries - Fatalities)	3-0	11-0	1-1	N-P	N-N	N-N	M-M	<u> </u>	N-N		
Traffic - a. Base Year (1972)	15,400	7,600	5,000	<u>4-1</u> 5,400	3-0	5-0	1-0	7-5	11-5		
b. ADT Estimate Design Year (1995)	15,700	12,000	11,000		6,500	2,700	2,300	1,000	1,800		
c. DHV Estimate Design Year (1995)	1,600	1,200	1,100	12,000	14,300	5,900	<u> 5,100</u>	3 900	3.900		
d. D Directional Distribution Factors	60	60	60	1,440 55	2,280	940	820	510	510		
e. T Percent Trucks (DHV)	02	02	05	10	55	55	55	55	55		
f. V/C Ratio (0.00)	0.50	0.13			04	04	04	O7	07		
Work Classification	0.70	0.10	0.16	0.59	0.50	0,33	0.20	0.14	0,14		
1. Preliminary Engineering	15	27	10		ated Cost (1,000	Dollars)					
2. Right-of-way		<1	12	111	79		96	35	157		
a. Acquisition	9	45	20	69							
b. Relocation		77				68	77	0	. 0		
3. Grade & drain; minor structures	67	500			69						
4. Subbase, base, surfacing, shoulders	250	339	140	685	419	980	597	14	17		
5. Interchanges	270	354	147	435	437	439	469	293	330		
6. Major Structures over 500'											
7. All other major structures											
8. All other items	66			488	90				684		
9. Subtotal, lines 3 to 8	383	68	41	129	47	107	109	29	33		
Construction Engr. & contingencies		761	336	1,767	993	1,526	1,175	336	1,064		
10% of Line 9	38	76	34	196	6.6				1,004		
Total cost of construction			74	179	99	153	117	34	106		
Lines 9 and 10	421	637	370	1,966	1,092	1,679	1 202	370			
2. Total Estimate cost, Lines 1, 2 and 11	445	909	402	2,146	1,240	1,747	1,292	405	1,170		

OOT/FHWA 1/74

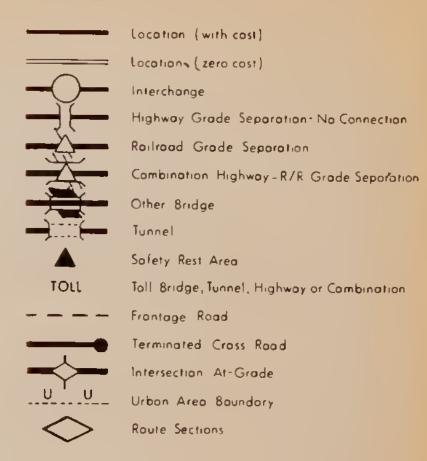
OMB No. 04-R-5652 Sheet 3 of 3 Sheets

StateMONTANA	FAP Route No8	Designated Route No. US 12	Route Letter A
Route Priority Ranking		(U.S. State or County)	

ltem			Estimate Section	ons		Subtotal		Total
	A-1°)	A-20	A-21	A=22	Rural	Small Urban	Urbanized	Total for Route
Condition Code and Construction Schedule	3	3	3	3	- 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17	Ortgan		
Section Length, miles (0.1)	1.1	9.7	11.3	0.9		à.		
Class Rural, Small Urban or Urbanized (R. S. U)	R	R	R	R	101.1	7.1	0.0	108.0
Urban Area I, D. (Name and Code)								
No of Lanes (Existing Ultimate)	2-2	2-2	2-2	2-2	the same of the sa			
(Aedian (Existing Ultimate)	Ŭ−Ŭ	U-U	U-U	U-U				
legree of Access Control (Existing - Ultimate)	[4-]1	N -11	11-11	N-N				
Accident Data (Injuries Fatalities)	5-0	3-1	4-2	7-2				
Traffic - a. Base Year (1972)	2,400	1,500	1,200	1,600	00-25	25-3		113-28
b. ADT Estimate Design Year (1995)	4,500	3,400	2,500	3,500		-		
c. DHV Estimate Design Year (1995)	590	440	340					
d D Directional Distribution Factors	55	55	55	450				
e. T Percent Trucks (DHV)	07	07	07	07				
f. V/C Ratio (0.00)	0.15	0.12	0.09	0.18				
Work Classification			0.07		d Cost (1,000 Dollars)			
1 Preliminary Engineering	16	103	115	120				
2. Right-of-way			1.47	120	გეი	132		958
a. Acquisition	12	71	62	69	924			
b. Relocation						138		1,062
3. Grade & drain; minor structures	87	226	307	130	69			69
4. Subbase, base, surfacing, shoulders	96	478		480	10,021	1,407		11,428
5. Interchanges		470	576	467	(,,)32	1,054		5,386
6. Major Structures over 500'								
7. All other major structures		113						_
8. All other items	10		010		1,755			1,755
9. Subtotal, lines 3 to 8		189	219	211	2,013	243		2,261
10. Construction Engr. & contingencies	193	1.006	1,102	1,158	21,121	2,709		23.030
10% of Line 9	19	101	110	116				27,070
11. Total cost of construction			110	110	2,112	271		2,383
Lines 9 and 10	212	1,107	1,212	1,274	22 222	2.030		
12. Total Estimate cost, Lines 1,2 and 11	240	1,261			23,233	2,980		26,213
	240	1,201	1,409	1,465	25,062	3,250		28,332



LEGEND FOR PRIORITY PRIMARY ROUTES



SCALE 1 INCH = 2 MILES

MONTANA

PRIORITY PRIMARY ROUTE A

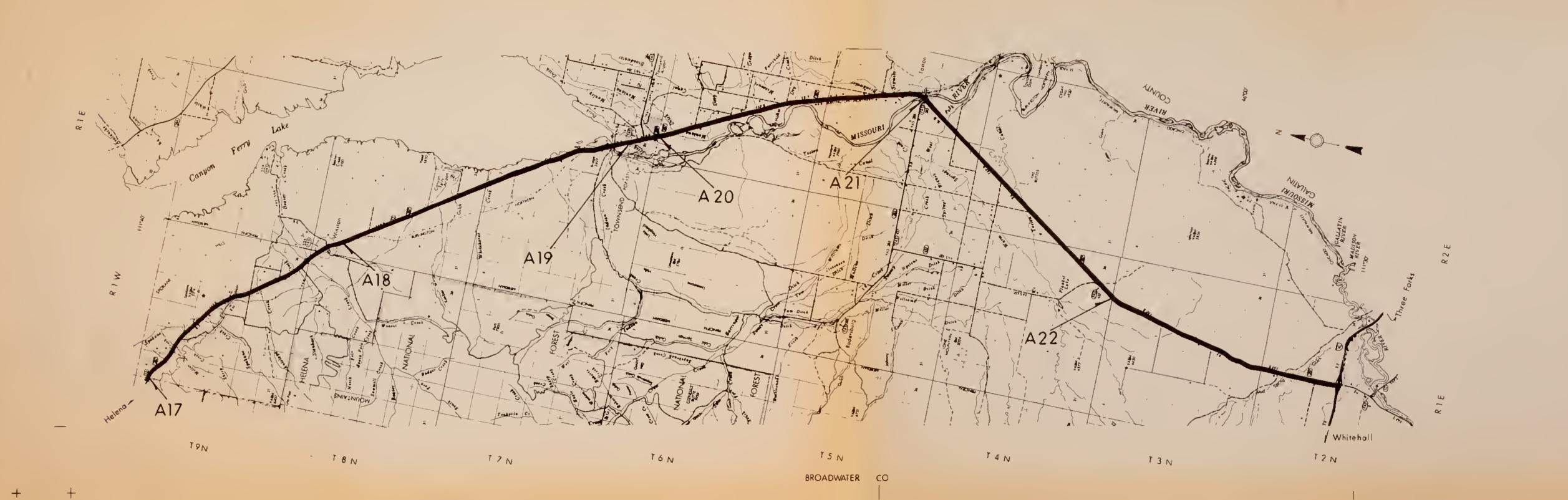
FAP ROUTE NUMBER 8

DESIGNATED ROUTE

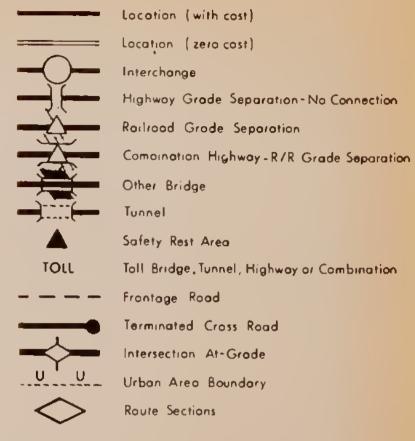
US 12 & US 287

Sheet 1 of 2 Sheets

Date DECEMBER 31, 1973



LEGEND FOR PRIORITY PRIMARY ROUTES



SCALE 1 INCH = 2 MILES

MONTANA

PRIORITY PRIMARY ROUTE A

F.A.P. ROUTE NUMBER 8

DESIGNATED ROUTE

US 12 & US 287

Sheet 2 of 2 Sheets

Dote DECEMBER 31, 1973



OMB No. 04-R-5652 Sheet 1 of 3 Sheets

STATE Montana

FAP Route No. ____5

Designated Route No. US 93 (U.S. State or County)

Route Letter ____B

Route Priority Ranking 02

ltem					Estimata Section	ns			
	B - 1	B - 2	B - 3	B - 4	B - 5	D (
Condition Code and Construction Schedule	3	3	3			B - 6	B - 7	B - 8	B - 9
Section Length, miles (0.1)	14.8	12.6	7.8	3	3	3	3	3	1
Class: Rural, Small Urban or Urbanized (R, S, U)	R	R		5.8	5.4	0.8	6.0	3.4	1
Urban Area I.D. (Name and Code)			R	R	R	R	R	7.4 R	0.9
No. of Lanes (Existing - Ultimate)	2-4	2-4	2-4					Т.	R
Median (Existing - Ultimate)	U-D	U-D	U-D	2-4	2-4	2-4	2-4	2-4	
Degree of Access Control (Existing - Ultimate)	N-P	N-P	N-P	U-D	U-D	U-U	U-D	U-D	2-4
Accident Data (Injuries - Fatalities)	38-10	27-8		N-P	N-P	N-N	N-P	N-P	U-D
Traffic - a. Base Year (1972)	3,000	3,100	15-4	17-0	10-6	5-0	12-6	7-0	N-P
b. ADT Estimate Design Year (1995)	6,600	6,800	2,700	3,100	3,600	3,700	3,500		3-0
c. DHV Estimate Design Year (1995)	990		5,900	6,700	7,900	8,200	7,800	3,600	3,600
d. D Directional Distribution Factors	55	1,020	890	1,010	1,190	1,230	1,090	8,000	8,000
e. T Percent Trucks (DHV)	11	55	55	55	55	55		1,120	1,120
f. V/C Ratio (0,00)	0.36		09	09	09	09	06	55	55
Work Classification	0.30	0.29	0.25	0.29	0.30	0.22		06	06
1. Preliminary Engineering	520			Estima	ated Cost (1,000		0.28	0.30	0.30
2. Right-of-way	520	336	212	188	107	15			
a. Acquisition	316				207		119	67	
b. Relocation	710	295	157	139	130	25	7		
3. Grade & drain; minor structures							144	81	1
Subbase, base, surfacing, shoulders	. 3,062	1,678	1,033	1,082	163				
5. Interchanges	1,476	1,435	811	850	461	183	513	297	
6. Major Structures over 500'				†	401	221	487	392	
7 All other aris									
7. All other major structures 8. All other items	390	78		196					
	470	352	239				30	61	
9. Subtotal, lines 3 to 8	5,398	3,543	2,083	196	115	25	128	84	
O. Construction Engr. & contingencies				2,3224	1,013	429	1,158	834	
10% of Line 9	540	354	208	232	101				
1. Total cost of construction					101	43	116	83	
Lines 9 and 10	5,938	3,897	2,291	2,55% 6	1 12:				
2. Total Estimate cost, Lines 1, 2 and 11	6,774	4,528	2,660		1,114	472	1,274	917	
		4,720	2,000	2,882 3	1,351	512	1,537	1,085	

DM8 No. 04-R-5652 Sheet 2 of 3 Sheets

STATE	Montana

FAP Route No. ____5___

Designated Route No. US 93

(U.S. State or County)

Route Letter ____B

Route Priority Ranking _____02

I.e.					Estimate Section	ns			
ltem									
	B - 10	B - 11	8 - 12	B - 13	B - 14	B - 15			
Condition Code and Construction Schedule	3	3	3	0			8 - 16	B - 17	B - 18
Section Length, miles (0,1)	1,2	2.3	9.7	6.2	0	2	2	3	3
Class: Rural, Small Urban or Urbanized (R, S, U)	R	R	R	R	1.8 R	5.4	7.2	10.7	5.4
Urban Area I.D. (Name and Code)					n	R	R	R	R
No. of Lanes (Existing - Ultimate)	2-4	2-2	2-2	2-2	2.0				
Median (Existing - Ultimate)	U-D	U-U	Ū- U	U-U	2-2	2-2	2-2	2-4	2-4
Degree of Access Control (Existing - Ultimate)	N-P	N-N	N-N	И-И	U-U	U-U	U-U	U-D	U-D
Accident Data (Injuries - Fatalities)	4-0	4-0	11-3	6-0	N-N	N-N	N-N	N-P	N-P
Traffic - a. 8ase Year (1972)	3,700	4,900	1,700		1-0	5-2	5-1	9-2	15-0
b. ADT Estimate Design Year (1995)	8,100	10,780	3,700	1,400	1,300	1,200	1,300	2,300	4,900
c. DHV Estimate Design Year (1995)	1,130	1,510	480	3,000	2,800	2,700	2,900	5,100	10,800
d. D Directional Distribution Factors	55	55	55	390 55	360	350	380	660	1,300
e. T Percent Trucks (DHV)	06	06	07	07	55	55	55	55	55
f. V/C Ratio (0.00)	0.40	0.30	0.15	0.14	80	08	08	08	03
Work Classification			0.17		0.10	0.17	0.17	0.30	0.39
1. Preliminary Engineering	39	8	110		ated Cost (1,000	Dollars)			
2. Right-of-way		 	110					382	194
a. Acquisition	27	7	74						
b. Relocation							67	185	122
3. Grade & drain; minor structures	. 199	65	2006						
4. Subbase, base, surfacing, shoulders	138	152	375 485			1,043	1,322	2,274	988
5. Interchanges		174	40)			672	766	1,043	710
6. Major Structures over 500'									
7. All other major structures									
8. All other items	38	10	218			52			
9. Subtotal, lines 3 to 8	375	227				164	192	383	172
10. Construction Engr. & contingencies	200	661	1,078			1,931	2,280	3,700	1,870
10% of Line 9	38	23	100						1,070
11. Total cost of construction		- 4)	108			193	228	370	187
Lines 9 and 10	413	250	1,186			2 12/	0.500		
12. Total Estimate cost, Lines 1, 2 and 11	479	265	1,370			2,124	2,508	4,070	2,057
			1,210			2,124	2,575	4,637	2,373

	•	

OMB No. 04-R-5652 Sheet 3_ of 3_ Sheets

Route Priority Banking	02	

State_Montana

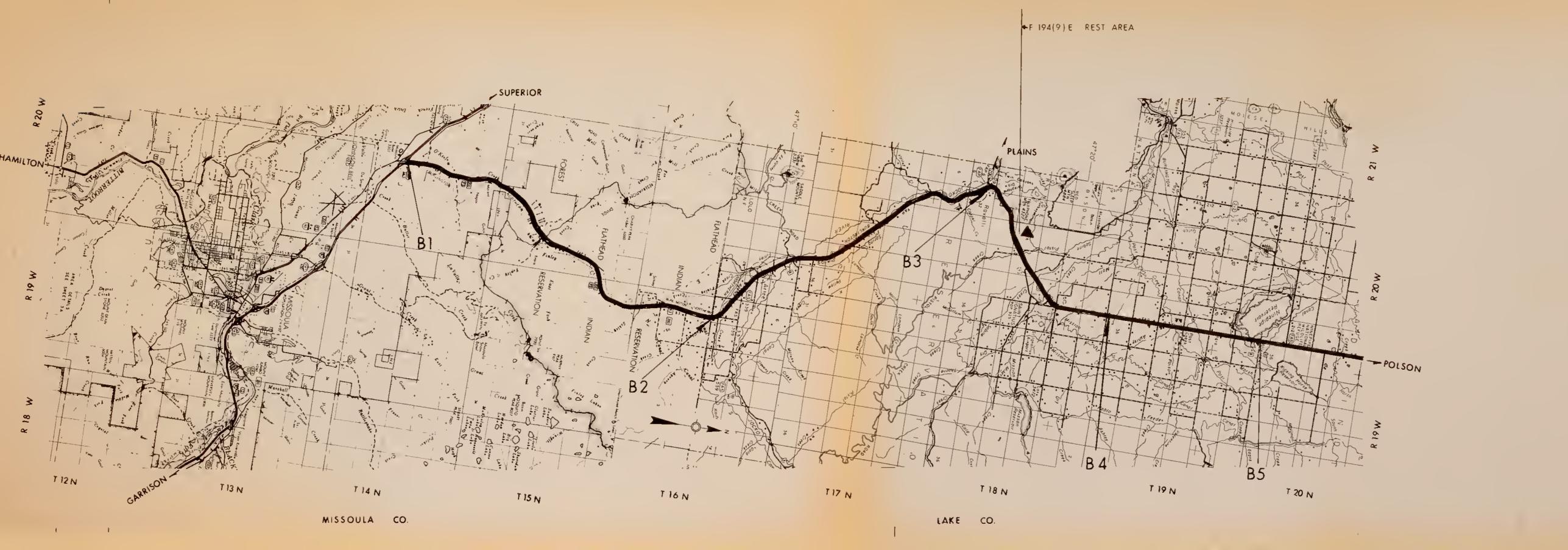
FAP Route No. ____5

Designated Route No. US 93 (U.S. State or County)

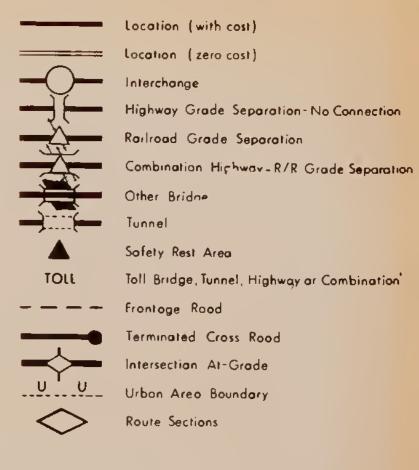
Route Letter____B

ltem			stimate Sections		Subtotal		Total fo
	B-19	B-20		Rural	Small	Urbanized	Route
Condition Code and Construction Schedule	3	3		90(0) ***	Urban		
Section Length, miles (0.1)	2.0	1.1					
Class Rural, Small Urban or Urbanized (R. S. U)	S	S		100.9	3.1		112.
Urban Area I. D. (Name and Code)	0860 Kalispell	1 0860					2 3
No. of Lanes (Existing Ultimate)	2-4	4-4					
Median (Existing Ultimate)	U-D	U-D					
Degree of Access Control (Lasting Ultimate)	N-N 1	N-il					
Accident Data (Injuries Fatalities)	2-0	10-0	_	10 - 10 -			
Traffic - a. Base Year (1972)	5,700	11,600		194-42	12-0		206-4
b. ADT Estimate Design Year (1995)	12,540	25,500					
c. DHV Estimate Design Year (1995)	1,380	2,800					
d. D Directional Distribution Factors	60	60					
e. T Percent Trucks (DHV)	05	05					
f. V/C Ratio (0.00)	0.25	0.60					
Work Classification							
1. Preliminary Engineering	50	16	Estimated Cost (1,000 D				
2. Right-of-way				2,317	68		2,38
a. Acquisition	81						
b. Relocation				1,769	ol		1,85
3. Grade & drain; minor structures	593	12					-,-,-,
4. Subbase, base, surfacing, shoulders				14,575	605		15,18
5. Interchanges	615	102		10,075	/17		10.79
6. Major Structures over 500'							10, 17
7. All other major structures							
8. All other items	24			807			80
9. Subtotal, lines 3 to 8	164	5		2,786	109		2,95
10. Construction Engr. & contingencies	1,372	119		28,24%3	1,491		29,73
10% of Line 9	137	12					الرا ورے
11. Total cost of construction		16		2,824	149		2,973
Lines 9 and 10	1,509	131		¥			
12. Total Estimate cost, Lines 1,2 and 11				31,0687	1,640		32,70
The state of the s	1,640	149		35,15X3	1,769		36,946

DOT/FHWA 1/74



LEGEND FOR PRIORITY PRIMARY ROUTES



SCALE 1 INCH = 2 MILES

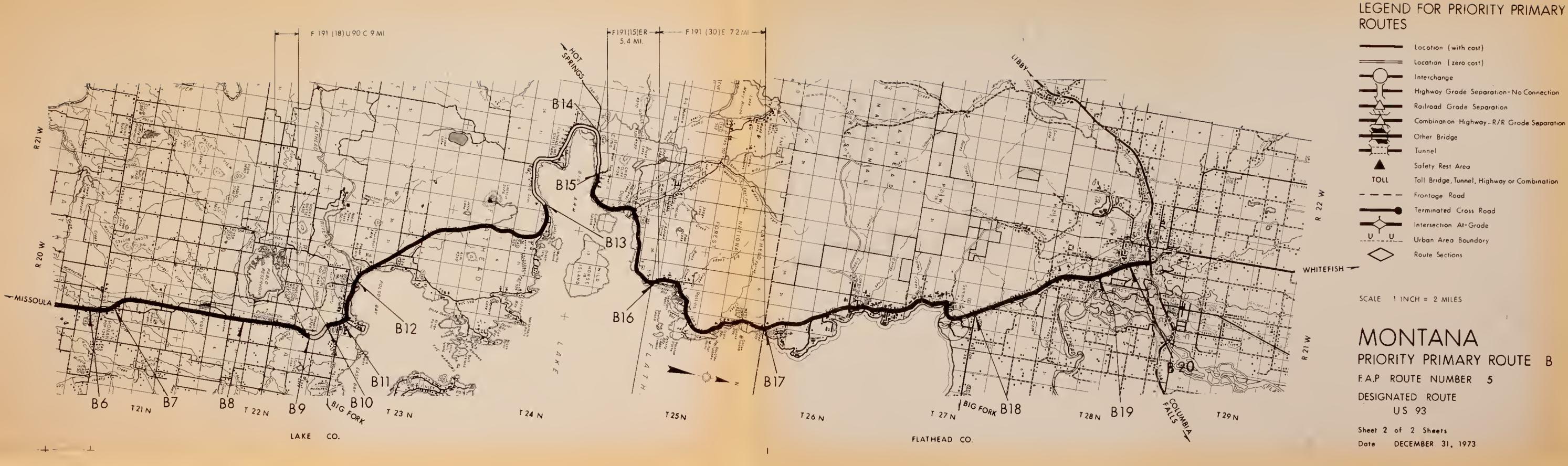
MONTANA PRIORITY PRIMARY ROUTE B

F.A.P. ROUTE NUMBER 5

DESIGNATED ROUTE US 93 MONT 200

Sheet 1 of 2 Sheets

Date DECEMBER 31, 1973





OM8 No. 04-R-5652 Sheet 1 of 2 Sheets

STATE __Montana

FAP Route No. ____7

Designated Route No. US 93
(U.S. State or County)

Route Letter ____C

Route Priority Ranking _____03

Item					Estimate Section	is .			
	C - 1	C - 2	C - 3	C - 4	0 - 5	C - 6	0 5		
Condition Code and Construction Schedule	2	2	3	3	3	0 - 0	C - 7	C - 8	C - 9
Section Length, miles (0.1)	0.7	1.3	9.7	7.7		1	3	3	3
Class: Rural, Small Urban or Urbanized (R. S. U)	R	R	R	R	6.7	9.2	0.5	6.8	1.3
Urban Area I.D. (Name and Code)				n n	R	R	R	R	S
No. of Lanes (Existing - Ultimate)	2-4	2-4	2-4	2-4	2 /				MSLA-0830
Median (Existing - Ultimate)	บ-บ	U-D	U-D	U-D	2-4	2-4	2-4	4-4	4-4
Degree of Access Control (Existing - Ultimate)	N-N	N-P	N-P	N-P	U-D	U-D	U-D	D-D	D-D
Accident Data (Injuries - Fatalities)	2-0	4-1	16-3	9-2	N-P	N-P	N-N	N-N	N-N
Traffic - a. 8ase Year (1972)	5,800	3,800	2,500	2,300			1-0	30-4	13-0
b. ADT Estimate Design Year (1995)	16,000	10,400	6,900	6,300	2,700	3,200	4,100	6,600	7,500
c. DHV Estimate Design Year (1995)	2,080	1,350	900	820	7,500	8,800	11,400	18,300	18,500
d. D Directional Distribution Factors	55	55	55	55	980	1,140	1,480	2,380	1,850
e. T Percent Trucks (DHV)	05	05	05	06	55	55	55	55	60
f. V/C Ratio (0.00)	0.86	0.30	0.20		06	06	06	06	05
Work Classification			0.20	0.18	0.21	0.37	0.18	0.17	0.15
1. Preliminary Engineering			378	Estim	nated Cost (1,000	Dollars)			
2. Right-of-way		 	210	243	124		13	41	5
a. Acquisition			233	201					
b. Relocation			 	184	163		16	1	
3. Grade & drain; minor structures	. 160	241	1 (2) 1	574.11	ļ				
4. Subbase, base, surfacing, shoulders	194	189	1,811	712	552		114	27	11
5. Interchanges	474	109	1,422	841	503		142	426	119
6. Major Structures over 500°		 		 					447
7. All other major structures		52	1 000					_	1
8. All other items	21		1,099	547			83		
9. Subtotal, lines 3 to 8	375	526	328	255	145		15	37	7
10. Construction Engr. & contingencies		720	4,660	2,355	1,200		354	490	137
10% of Line 9	38	53	466	226	100				T
11. Total cost of construction		 	400	236	120		35	49	14
Lines 9 and 10	413	579	5,126	2 601					
2. Total Estimate cost, Lines 1, 2 and 11	413	579		2,591	1,320		389	539	151
	440	7/7	5,737	3,018	1,607		418	580	156



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State_	Montana	FAP	Route	No

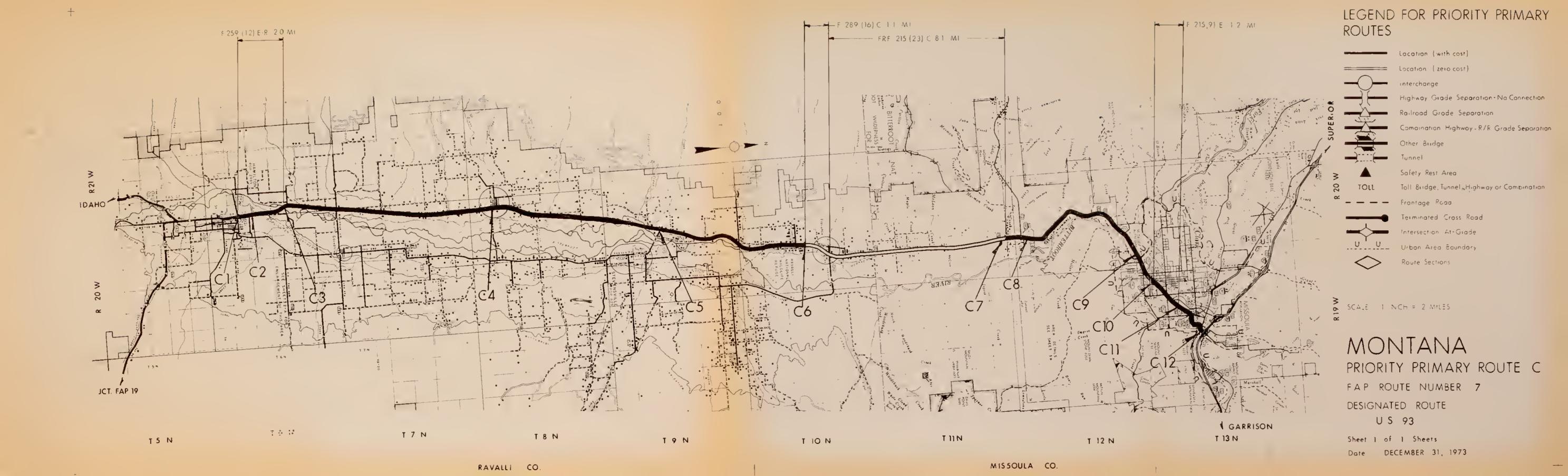
Designated Route No. US 93 (U.S. State or County)

Route Letter C

Route Priority Ranking ______03

Item			Estimate Sections	Subtotal			Total for	
Tieni	C - 10	C - 11	C - 12		Rural	Small Urban	Urbanized	Route
Condition Code and Construction Schedule	2	3	3		***			
Section Length, miles (0.1)	1.2	1.3	1.2		42.6	5.0	NS.	47.6
Class: Rural, Small Urban or Urbanized (R, S, U)	S	S	5		H 0	7.0		41.0
Urban Area I. D. (Name and Code)	0830	0830	Msla-0830					1550. 1544
No. of Lanes (Existing - Ultimate)	- 4-4	4-4	4-4		32-0			
Median (Existing - Ultimate)	U-D	U-D	D-D					
Degree F Access Control (Existing - Ultimate)	N-P	N-P	N-P					
Accident Data (Injuries Fatalities)	15-0	16-0	20-0		68-12	64-0		132-12
Traffin a. Base Year (1972)	14,400	13,500	12,300		1970	E		27-15
b. ADT Estimate Design Year (1995)	28,400	26,600	24,200					
c. DHV Estimate Design Year (1995)	2,840	2,660	2,420					
d. D Directional Distribution Factors	60	60	60					
e. T Percent Trucks (DHV)	05	02	05					
f. V/C Ratio (0.00)	1.19	0.86	0.72		- Emeritary			
Work Classification				Estimated Cost (1,000	Dollars)			
Preliminary Engineering		23	9		799	37	_	836
2. Right-of-way							_	- 0,0
a. Acquisition	1,000	27	9		596	1,036		1,632
b. Relocation								4,072
3. Grade & drain; minor structures	216	194	68		3,617	489		/ 106
4. Subbase, base, surfacing, shoulders	320	271	175		3,717	885		4,106
5. Interchanges					2,141	- 007		4,602
6. Major Structures over 500'			5			5		5
7. All other major structures					1,781			1,781
8. All other items	155	143	74		845	379		
9. Subtotal, lines 3 to 8	691	608	322		9,960	1,758		1,224
10. Construction Engr. & contingencies					7,700	1,770		11,718
10% of Line 9	69	61	32		996	176		1,172
11. Total cost of construction						210		29212
Lines 9 and 10	760	669	354		10,956	1,934		12,890
12. Total Estimate cost, Lines 1,2 and 11	1,760	719	372		12,351	3,007		15,358

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STATEMontana	FAP Route No20	Designated Route No. Mont. 16	Route LetterD
Route Priority Ranking 04		(U.S. State or County)	

					Entire Const				
ltem					Estimate Section	\$			
1600	D - 1	D = 2	D = 3	D - 4	D - 5	D - 6	D - 7	D - 8	D ~ 9
Condition Code and Construction Schedule	0	0	0	0	3	3	2		
Section Length, miles (0.1)	1.2	4.4	6.9	5.6	4.1	5.8	2.6	1	2
Class: Rural, Small Urban or Urbanized (R, S, U)	S	R	R	R	R	R	2,0 R	1.5 R	9.0
Urban Area I.D. (Name and Code)	Glendive-0500								R
No. of Lanes (Existing - Ultimate)	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2.3
Median (Existing - Ultimate)	U-U	U-U	U-U	U-U	U-U	U-U	U-U	U-0	2-2
Degree of Access Control (Existing - Ultimate)	N-N	N-N	N-N	N-N	N-N	N -N	N-N		U-U
Accident Data (Injuries - Fatalities)	0-0	1-0	2-0	2-0	2-0	3-0	2-0	N-N	N-N
Traffic - a. Base Year (1972)	1,300	1,300	900	700	800	900		1 200	7-0
b. ADT Estimate Design Year (1995)	2,600	2,600	1,900	1,700	1,700	1,900	1,200	1,200	1,200
c. DHV Estimate Design Year (1995)	340	340	250	220	220	250	2,600	2,600	2,600
d. D Directional Distribution Factors	55	55	55	55	55	55	340	340	340
e. T Percent Trucks (DHV)	06	06	15	15	15	15	55	55	55
f. V/C Ratio (0.00)	0.09	0.09	0.07	0.09	0.07		15	15	15
Work Classification						0.12	0.13	0.13	0.13
1. Preliminary Engineering				Estin	ated Cost (1,000				
2. Right-of-way					11	13			
a. Acquisition	1								
b. Relocation									66
3. Grade & drain; minor structures					-				
4. Subbase, base, surfacing, shoulders				ļ	4	6	203		700
5. Interchanges					81	112	252		870
6. Major Structures over 500°		-							
7. All other major structures									
8. All other items							108		108
9. Subtotal, lines 3 to 8					8	12	45		156
1D. Construction Engr. & contingencies					93	130	608		1,834
10% of Line 9					0	20	,,		
11. Total cost of construction					9	13	61		183
Lines 9 and 10					102	143	669		2,017
12. Total Estimate cost, Lines 1, 2 and 11					113				
					110	156	669		2,083

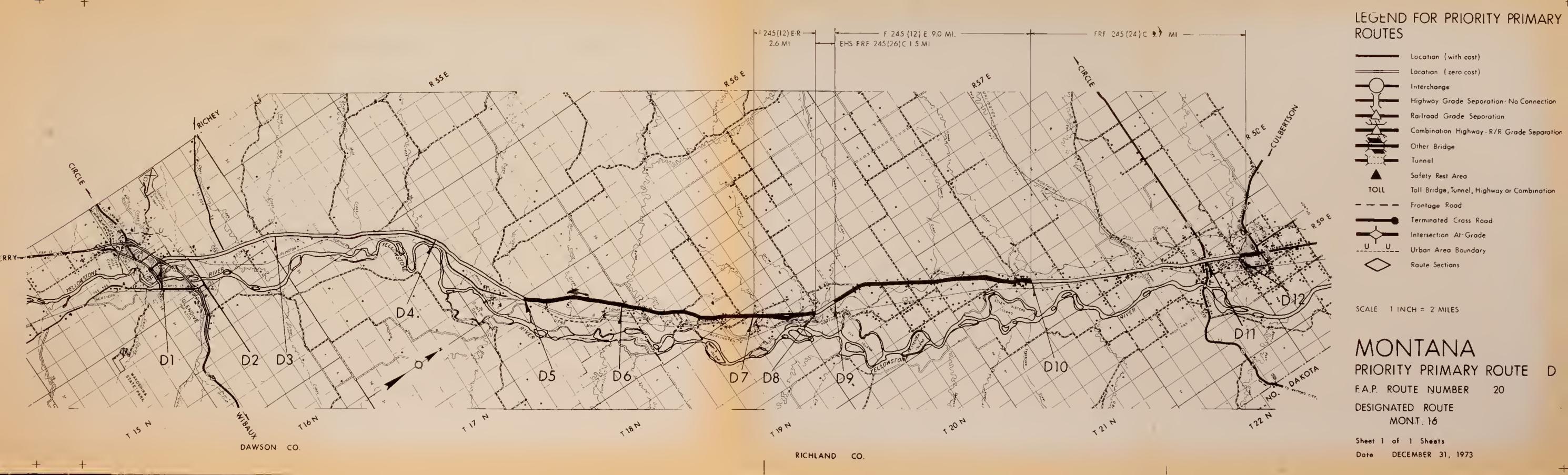
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StateMontana	FAP Route No. 2D	Designated Route No. Mont. 16 (U.S. State or County)	Route LetterD
Route Priority Ranking	04		

Item			Estimate Sections			Subtotal		Total for
	D - 10	D - 11	D - 12		Rural	Small Urban	Urbanized	Route
Condition Code and Construction Schedule	0	0	3			2004000000		
Section Length, miles (0.1)	8,0	1,7	0.7		50.3	1,2		51.5
Class: Rural, Small Urban or Urbanized (R, S, U)	R	R	R		70.5	A . C		71.7
Urban Arra I. D. (Name and Code)					Committee of the same	Market a second or other property and		
No. of Lanes (Existing - Ultimate)	2-2	4-4	4-4		The same of the same of	*************	- The state of the	
Median (Existing - Ultimate)	U-U	D-D	Ŭ-U		200			
Degree of Access Control (Existing - Ultimate)	N-N	N-N	N-N		- Commonword - A			
Accident Data (Injuries - Fatalities)			6-0		25-0	0-0		25.0
Traffic - a. Base Year (1972)	1,440	3,200	6,400		10000	A 10-0	THE RESERVE THE PROPERTY OF TH	25-0
b. ADT Estimate Design Year (1995)	3,200	7,000	14,100			A Science was	S. Alama	E# 3
c. DHV Estimate Oesign Year (1995)	420	910	1,830			- Against A		
d. O Directional Distribution Factors	55	55	55		- Arming the state of the state	Andrews and a second	The second second	
e. T Percent Trucks (OHV)	15	15	05				The state of the s	
f. V/C Ratio (0.00)	0.24	0.15	0,36				· ·	nessisting.
Work Classification				Estimated Cost (1,000	Dollars)	All the second		The second secon
1. Preliminary Engineering					24	_		24
2. Right-of-way						_		
a. Acquisition					66			66
b. Relocation							 	
3. Grade & drain; minor structures			7		920			920
4. Subbase, base, surfacing, shoulders			55		1,370			1,370
5. Interchanges								1,776
6. Major Structures over 500'								
7. All other major structures					216288	<u> </u>		216 208
8. All other items			2		223			
9. Subtotal, lines 3 to 8			64		2,729			223
10. Construction Engr. & contingencies					2,127		-	2,729
10% of Line 9			6		273			273
11. Total cost of construction								
Lines 9 and 10			70		3,002			3,002
12. Total Estimate cost, Lines 1,2 and 11			70		3,092			3,092

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STATE Montana

FAP Route No. ____24

Designated Route No. Mont. 200 (U.S. State or County)

Route Letter ____E____

Route Priority Ranking _____05

E - 1 E - 2 E - 3 E - 4 E - 5 E - 6 E - 7 E - 8 E - 9						Estimate Section	ns			
Condition Code and Construction Schedule	Item	E = 1	F = 2	F _ 3	p ,					
Section Length, miles (0.1)	Condition Code and Construction Schedule				1		E - 6	E - 7	E - 8	E - 9
Class: Rural, Small Urban or Urbanized (R, S, U) R R R R R R R R R										3
Urban Area I.D. (Name and Code)			+						12.5	9.8
No. of Lanes (Existing - Ultimate)				T I	R.	R	R	R	R	R
Median (Existing - Ultimate)		2=2	2=4	2-1	2 /	-				
Degree of Access Control (Existing Ultimate) N-N N-P N-P										
Accident Data (Injuries - Fatalities) 9-0 2-0 4-1 3-0 12-3 11-2 11-1 6-1 Traffic - 8. 8sey Year (1972) 3,000 1,900 1,700 1,700 1,500 1,400 1,300 1,200 1,100 1,100 1,100 b. ADT Estimate Design Year (1995) 6,500 5,100 4,800 4,100 3,800 3,700 3,300 3,000 3,000 3,000 c. DHV Estimate Design Year (1995) 850 870 820 700 650 630 560 630 560 510 510 510 d. D Directional Distribution Factors 55 55 55 55 55 55 55 55 55 55 55 55 55			7							
Traffic										
b. AOT Estimate Design Year (1995) 6,500 5,100 4,800 4,100 3,600 3,700 3,300 3,000 3,000 c. DHV Estimate Design Year (1995) 850 870 820 700 650 630 560 510 510 510 510 6 10 Directional Distribution Factors 55 55 55 55 55 55 55 55 55 55 55 55 55		3.000								6-1
c. DHV Estimate Design Year (1995) 850 870 820 700 650 630 560 510 510 510 6. Directional Distribution Factors 55 55 55 55 55 55 55 55 55 55 55 55 55			_							1,100
d. D Directional Distribution Factors 55										3,000
e. T Percent Trucks (DHV)										510
F. V/C Ratio (0.00)										55
Setimated Cost (1,000 Dollars)										16
1. Preliminary Engineering 118 517 215 472 455 486 380				9.27				0.21	0.21	0.21
2. Right-of-way a. Acquisition b. Relocation 3. Grade & drain; minor structures 1,819 433 3,772 1,099 3,472 2,785 2,575 2,019 4. Subbase, base, surfacing, shoulders 729 300 1,512 760 1,473 1,509 1,587 1,245 5. Interchanges 6. Major Structures over 500' 7. All other major structures 2,400 329 666 460 110 100 62 8. All other items 204 33 425 210 385 398 437 342 9. Subtotal, lines 3 to 8 5,152 1,145 6,375 2,069 5,790 4,802 4,699 3,668 10% of Line 9 11. Total cost of construction Lines 9 and 10 5,667 1,260 7,013 2,276 6,369 5,282 5,169 4,035 12. Total Estimate cost, Lines 1, 2 and 11			T	118	Estim					
b. Relocation 3. Grade & drain; minor structures 1,819 433 3,772 1,099 3,472 2,785 2,575 2,019 4. Subbase, base, surfacing, shoulders 729 300 1,512 760 1,473 1,509 1,587 1,245 5. Interchanges 6. Major Structures over 500' 7. All other major structures 2,400 329 666 460 110 100 62 8. All other items 204 33 425 210 385 398 437 342 9. Subtotal, lines 3 to 8 5,152 1,145 6,375 2,069 5,790 4,802 4,699 3,668 10% of Line 9 515 115 638 207 579 480 470 367 11. Total cost of construction Lines 9 and 10 5,667 1,260 7,013 2,276 6,369 5,282 5,169 4,035				110	717	512	472	455	486	380
b. Relocation 3. Grade & drain; minor structures 1,819 433 3,772 1,099 3,472 2,785 2,575 2,019 4. Subbase, base, surfacing, shoulders 729 300 1,512 760 1,473 1,509 1,587 1,245 5. Interchanges 6. Major Structures over 500' 7. All other major structures 2,400 329 666 460 110 100 62 8. All other items 204 33 425 210 385 398 437 342 9. Subtotal, lines 3 to 8 5,152 1,145 6,375 2,069 5,790 4,802 4,699 3,668 10% of Line 9 515 115 638 207 579 480 470 367 11. Total cost of construction Lines 9 and 10 5,667 1,260 7,013 2,276 6,369 5,282 5,169 4,035	The state of the s		2.7	50	00	3.50				
3. Grade & drain; minor structures 1,819 453 3,772 1,099 3,472 2,785 2,575 2,019 4. Subbase, base, surfacing, shoulders 729 300 1,512 760 1,473 1,509 1,587 1,245 6. Major Structures over 500' 7. All other major structures 2,400 329 666 460 110 100 62 8. All other items 204 83 425 210 385 398 437 342 9. Subtotal, lines 3 to 8 5,152 1,145 6,375 2,069 5,790 4,802 4,699 3,668 10% of Line 9 515 115 638 207 579 480 470 367 11. Total cost of construction Lines 9 and 10 5,667 1,260 7,013 2,276 6,369 5,282 5,169 4,035		-			70	150	164	256	283	222
4. Subbase, base, surfacing, shoulders 729 300 1,512 760 1,473 1,509 1,587 2,019 5. Interchanges 6. Major Structures over 500' 7. All other major structures 2,400 329 666 460 110 100 62 8. All other items 204 33 425 210 385 398 437 342 9. Subtotal, lines 3 to 8 10. Construction Engr. & contingencies 10% of Line 9 515 115 638 207 579 480 470 367 11. Total cost of construction Lines 9 and 10 5,667 1,260 7,013 2,276 6,369 5,282 5,169 4,035			1 819	/33	3 997	3 000				
5. Interchanges 6. Major Structures over 500' 7. All other major structures 8. All other items 9. Subtotal, lines 3 to 8 10. Construction Engr. & contingencies 10% of Line 9 11. Total cost of construction Lines 9 and 10 11. Total Estimate cost, Lines 1, 2 and 11 11. Total Estimate cost, Lines 1, 2 and 11 11. Total Estimate cost, Lines 1, 2 and 11 11. Total Estimate cost, Lines 1, 2 and 11 11. Total Estimate cost, Lines 1, 2 and 11 11. Total Estimate cost, Lines 1, 2 and 11 11. Total Estimate cost, Lines 1, 2 and 11				<u>-i</u>				1 '		2,019
6. Major Structures over 500' 7. All other major structures 8. All other items 9. Subtotal, lines 3 to 8 10. Construction Engr. & contingencies 10% of Line 9 11. Total cost of construction Lines 9 and 10 12. Total Estimate cost, Lines 1, 2 and 11 13. Total Estimate cost, Lines 1, 2 and 11 14. Total cost of construction 2, 2 and 11 15. Total Estimate cost, Lines 1, 2 and 11 16. All other major structures 10. 460 110 100 100 100 100 100 100 100 100 1			12/	700	1,712	760	1,473	1,509	1,587	1,245
7. All other major structures 2,400 329 666 460 110 100 62 8. All other items 9. Subtotal, lines 3 to 8 5,152 1,145 6,375 2,069 5,790 4,802 4,699 3,668 10% of Line 9 515 115 638 207 579 480 470 367 11. Total cost of construction Lines 9 and 10 5,667 1,260 7,013 2,276 6,369 5,282 5,169 4,035				+						
8. All other items 9. Subtotal, lines 3 to 8 10. Construction Engr. & contingencies 10% of Line 9 11. Total cost of construction Lines 9 and 10 5,667 1,260 7,013 204 83 425 210 385 398 437 342 3,668 207 579 480 470 367 12. Total Estimate cost, Lines 1, 2 and 11 5,714 1,37 7,638 2,276 6,369 5,282 5,169 4,035			2,400	320	644					
9. Subtotal, lines 3 to 8 7,152 1,145 6,375 2,069 5,790 4,802 4,699 3,668 10% of Line 9 515 115 638 207 579 480 470 367 Lines 9 and 10 5,667 1,260 7,013 2,276 6,369 5,282 5,169 4,035			<u> </u>			020				62
10. Construction Engr. & contingencies 10% of Line 9 11. Total cost of construction Lines 9 and 10 12. Total Estimate cost, Lines 1, 2 and 11 13. Construction Engr. & contingencies 3,790 4,802 4,699 3,668 207 579 480 4,802 4,699 3,668 207 579 480 4,035										342
10% of Line 9 515 115 638 207 579 480 470 367 11. Total cost of construction Lines 9 and 10 5,667 1,260 7,013 2,276 6,369 5,282 5,169 4,035 12. Total Estimate cost, Lines 1, 2 and 11 5,714 1,737 7,638 3,443 7,000			7,272	1,142	0,377	2,069	5,790	4,802	4,699	3,668
11. Total cost of construction Lines 9 and 10 5,667 1,260 7,013 2,276 6,369 5,282 5,169 4,035			515	115	638	202	570	120	150	
Lines 9 and 10 5,667 1,260 7,013 2,276 6,369 5,282 5,169 4,035	11. Total cost of construction			-		207	7/7	480	470	367
12. Total Estimate cost, Lines 1, 2 and 11 5.714 1 /37 7 628 0 442 7 000	Lines 9 and 10		5,667	1,260	7,013	2.276	6.369	5 282	5 160	4.02.5
	12. Total Estimate cost, Lines 1, 2 and 11									

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STATE _Montana

FAP Route No. ____24____

Designated Route No. Mont. 200 (U.S. State or County)

Route Letter ____E

Route Priority Ranking _____05

	Estimate Sections									
ltem										
	E - 10	E - 11	E - 12	E - 13	E - 14	E - 15	E - 10	E - 17	E - 18	
Condition Code and Construction Schedule	3	3	3	3	3	3	3	3	3	
Section Length, miles (0.1)	6,8	10,7	8.2	9.3	8,5	7,8	10.6	5.7	6,6	
Class: Rural, Small Urban or Urbanized (R, S, U)	R	R	R	R	R	R	R	R	2,0	
Urban Area I.D. (Name and Code)									10	
No. of Lanes (Existing - Ultimate)	2-4	2-4	2-2	2-2	2-2	2-2	2-2	2-4	r ,	
Median (Existing - Ultimate)	U-D	U-D	บ -บ	U-U	U-U	U=0	V-U		2-4	
Degree of Access Control (Existing - Ultimate)	N-P	N-P	N-N	N-N	N-N	N-11	11-11	G-0	U-D	
Accident Data (Injuries - Fatalities)	6-0	10-1	7-0	8-0	22-2	9-2	4-2	N-P	3/-5	
Traffic - a. Base Year (1972)	1,300	1,300	900	900	1,000	1,000	1,000	5-3	15-1	
b. ADT Estimate Design Year (1995)	3,600	3,600	2,600	2,600	2,700	2,700		1,400	1,731	
c. DHV Estimate Design Year (1995)	610	540	390	390	400	400	2,700	3,900	4,000	
d. D Directional Distribution Factors	55	55	55	55	55	55	55	550	040	
e. T Percent Trucks (DHV)	16	12	12	13	13	13	13	55	55	
f, V/C Ratio (0,00)	0,27	0,18	0,18	0.16				13	13	
Work Classification	0,27 0,18 0,18 0,16 0,16 0,16 0,16 0,12 0,15 Estimated Cost (1,000 Dollars)							0,15		
1. Preliminary Engineering	276	428	215	251	250		1 2//			
2. Right-of-way		7-0		2/1	270	224	266	151	199	
a. Acquisition	154	249	67	76	77	71	96	136	1	
b. Relocation						- '-		150	158	
3. Grade & drain; minor structures	1,447	2,980	1,113	1,325	1 202	1 100	1.00			
4. Subbase, base, surfacing, shoulders	875	1,582	655	759	1,284	1,178	1,084	790	639	
5. Interchanges					020	700	1,206	933	898	
6. Major Structures over 500'										
7. All other major structures	111	333	62	71	101	12	10			
8. All other items	238	378	244	277	202	42	48		381	
9. Subtotal, lines 3 to 8	2,671	5,273	2,074			185	232	139	149	
10, Construction Engr. & contingencies		7,20	2,0,4	2,432	2,415	2,165	2,570	1,862	2,067	
10% of Line 9	267	527	207	243	242	217	257	186	207	
11. Total cost of construction							277	100	207	
Lines 9 and 10	2,938	5,800	2,281	2,675	2,657	2,382	2,827	2,048	2,274	
12. Total Estimate cost, Lines 1, 2 and 11	3,368	6,477	2,563	3,002	2,984	2,677	3,189	2,335	2,631	

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StateWORLER	FAP Route No24	Designated Route No. Mont. 200 (U.S. State or County)	Route LetterE
Route Priority Ranking05		, ,	

ltern			s Sections	Subtotal	Total for
162114	E - 19	E - 20	Rural	Small Urban Urbanized	Route
Condition Code and Construction Schedule	3	3			
Section Length, miles (0.1)	6.3	1.4	148.		2.0.0
Class: Rural, Small Urban or Urbanized (R, S, U)	R	R	140.		148.0
Urban Area I, D. (Name and Code)			The second	The state of the s	A -
No of Laites (Existing - Ultimate)	2-4	2-4		the same of the sa	4
Median (Existing - Ultimate)	U-D	U-D	Annual An	- Control of the Cont	
Degree of Access Control (Existing - Ultimate)	N-P	N-P		terrese seems	-
Accident Data (Injuries - Fatalities)	3-1	2-0	150-	20	150.3
Traffic - a. Base Year (1972)	3,000	3,400			150-20
b. ADT Estimate Design Year (1995)	7,500	8,300			
c DHV Estimate Design Year (1995)	980	1,080	The state of the s	The approximation and the second seco	48
d. D Directional Distribution Factors	55	55			
e. T Percent Trucks (DHV)	10	10			100
f. V/C Ratio (0.00)	0.25	0,42			
Work Classification			Estimated Cost (1,000 Dollars)		
1. Preliminary Engineering	167	68	5,138		1
2. Right-of-way			7,100	, , , , , , , , , , , , , , , , , , ,	5,138
a. Acquisition	151	27	2,541		2 5/1
b. Relocation					2,541
3. Grade & drain; minor structures	873	150	30,837		
4. Subbase, base, surfacing, shoulders	1,031	165	18,807		30,837
5. Interchanges			10,007		18,807
6. Major Structures over 500°					-
7. All other major structures		312	5,586		4 500
8. All other items	153	33	4,714		5,588
9. Subtotal, lines 3 to 8	2,057	660			4,714
10. Construction Engr. & contingencies			59,946		59,946
10% of Line 9	206	66	5,995		5,995
11. Total cost of construction			7,777		2,777
Lines 9 and 10	2,263	726	65,941		65 013
12. Total Estimate cost, Lines 1,2 and 11	2,581	821	73,620		65,941 73,620

OOT/FHWA 1/74

DMB No. 04-R-5652 Sheet 1 of 5 Sheets

STATE Montana

FAP Route No. _____15

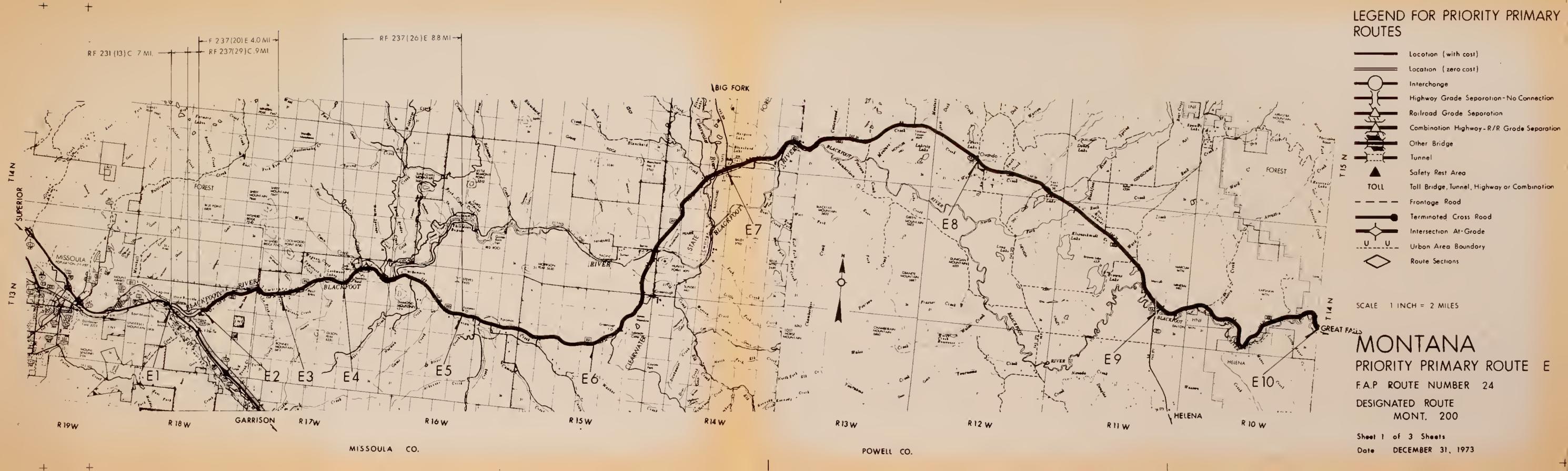
Designated Route No. __ U.S. 87 (U.S. State or County)

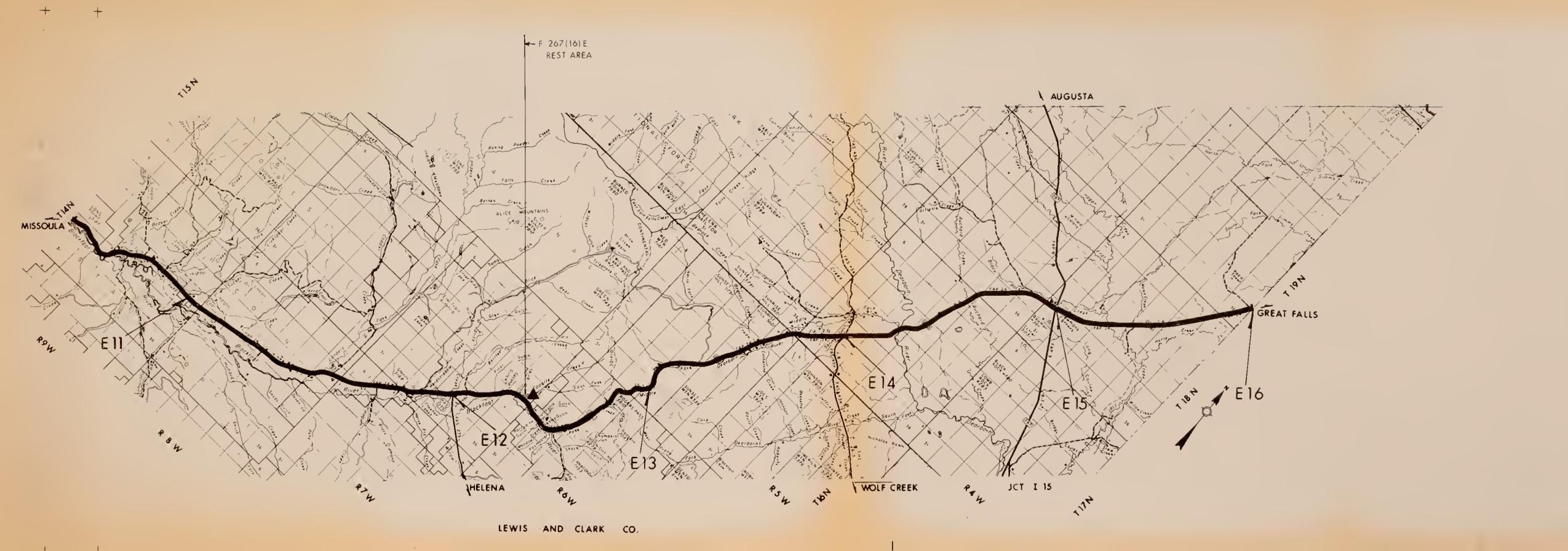
Route Letter ____F___

Route Priority Ranking ______06

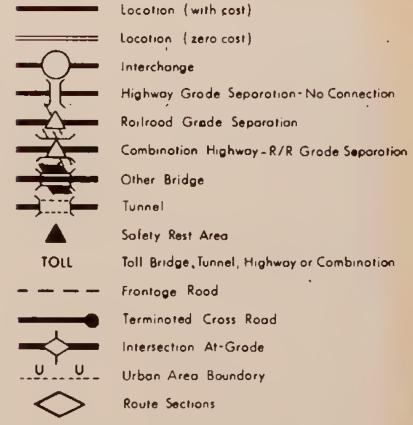
					Estimate Sectio	ns			
ftem									
	F-1	F-2	F-3	F-4	F-5	F-6	F-7	F-8	F.0
Condition Code and Construction Schedule	3	2	2	3	3	2	0	2	F-9
Section Length, miles (0.1)	1.1_	4.3	7.0	7.8	3.6	5.4	16.6	11.3	8.6
Class: Rural, Small Urban or Urbanized (R. S. U)	U	U	R	R	R	R	R	R	
Urban Area I.D. (Name and Code)	Gt. Falls0530	Gt. Falls0530	0			 	 	A	R
No. of Lanes (Existing - Ultimate)	4-4	4-4	2-4	2-4	2-4	2-2	2-2		
Median (Existing - Ultimate)	·DD	D-D	U-D	U-D	U-D	U-V	U=U	2-2 U-U	2-2 V-V
Degree of Access Control (Existing - Ultimate)	N-N	N-N	N-P	N-P	N-P	N-N	N-N		N-N
Accident Data (Injuries - Fatalities)	9-0	66-Z	10-3	4-1	8-2	2-0	13-0	N-N 11-0	6-0
Traffic - a. Base Year (1972)	15,630	24,000	2,600	2,600	2,000	1,500	1,200	1,100	
b. ADT Estimate Design Year (1995)	27,500	38,700	6,500	6,500	5.000	3,000	2,400		1.300
c. DHV Estimate Design Year (1995)	2,750	3,870	850	850	650	440	290	2,200	2.600
d. D Directional Distribution Factors	60	60	55	55	55	55		55	
e. T Percent Trucks (DHV)	05	05	07	07	07	07	55	1 13	55 13
f. V/C Ratio (0.00)	0.48	0.40	0,39	0.31	0.24	0.14	0.10	-	
Work Classification					mated Cost (1,000		0.13	0.13	0,13
1. Preliminary Engineering	90			290	145	19	T		
2. Right-of-way					+4/	17	 		
a. Acquisition		5	189	188	82				
b. Relocation							 	94	78
3. Grade & drain; minor structures	. 5	60	1,757	1,964	854			9.50	
4. Subbase, base, surfacing, shoulders	47	622	1,401	1.354	589	150		857	821
5. Interchanges			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,376	707	170		1,031	979
6. Major Structures over 500°	2,384	_	 				 		-
7. All other major structures		1	61		238			1.17	
8. All other items	2	261	420	232	101	15	_	147	212
9. Subtotal, lines 3 to 8	2,438	261 943	3,639	3,550	1,782			226	173
10. Construction Engr. & contingencies				7,750	1,704	172		2,261	2,185
10% of Line 9	244	94	364	355	178	17		22/	
11. Total cost of construction					170	1/		226	219
Lines 9 and 10	2,682	1,037	4,003	3,905	1,960	189			2 404
12. Total Estimate cost, Lines 1, 2 and 11	2,772	1,042	4,192	4,383	2,187	208		2,487	2,404

OOT/FHWA 1/74





LEGEND FOR PRIORITY PRIMARY ROUTES



SCALE 1 INCH = 2 MILES

MONTANA

PRIORITY PRIMARY ROUTE E

F.A.P. ROUTE NUMBER 24

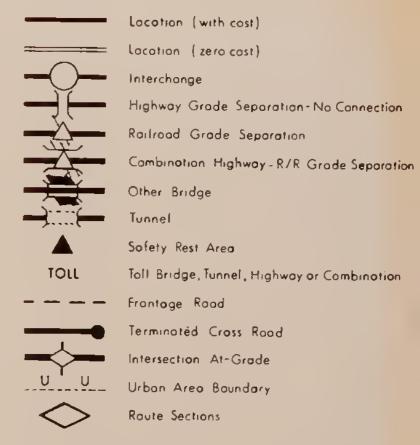
DESIGNATED ROUTE MONT. 200

Sheet 2 of 3 Sheets

Date DECEMBER 31, 1973



LEGEND FOR PRIORITY PRIMARY ROUTES



SCALE | TINCH = 2 MILES

MONTANA

PRIORITY PRIMARY ROUTE E

F.A.P ROUTE NUMBER 24

DESIGNATED ROUTE

MONT. 200

Sheet 3 of 3 Sheets

Dote DECEMBER 31, 1973

OMB No. 04-R-5652 Sheet 2 of 5 Sheets

STATE Montage FAP Route No. 15

Route Letter F

Item			1		Estimate Secti	ions			
	F-10	F-11	2.15						
Condition Code and Construction Schedule	2		F-12	F-13	F-14	F-15	F-16	F=17	7.10
Section Length, miles (0.1)	12.6	2	3		3	3			F-18
Class. Rural, Small Urban or Urbanized (R, S, U)	R	3,4	9,1	9,9	4.0	2.1	3	3	3
Orban Area I.D. (Name and Code)	 	R	R	2	R	2	11.1	9.0	9.3
No. of Lanes (Existing - Ultimate)	2-2			-		LWSTN - 0720	R	R	R
Median (Existing - Ultimate)	ป-บ	2-2	2-2	2-2	2-2	2-2			
Degree of Access Control (Existing - Ultimate)	N-N	U-U	ט-ני	U-U	5 − 0	<u>1</u>	2-2 U-U	2-2	2-2
Accident Data (Injuries - Fatalities)	11-3	N-N	N-N	N-N	H-M	Y-N		U- U	U_U
Traffic - a. Base Year (1972)	1,200	3-0	10-1	10-0	6-1	3-0	N-N 0-1	N-N	N-N
b. ADT Estimate Design Year (1995)	2,400	1,300	1,400	1,400	1,300	4,000		4-0	3-2
c. DHV Estimate Design Year (1995)	290	2,600	2,700	2,700	3,600	7,900	300	700	700
d. D Directional Distribution Factors	55	310	320	320	430	950	1,600	1,400	1,400
e. T Percent Trucks (DHV)			55	55	55	55	210	180	180
. V/C Ratio (0.00)	0,12	12	12	37	07	05	17	55	55
Work Classification	V, 12	0.12	0.10	0.12	0.15	0.39	0,12	17	16
1. Preliminary Engineering				Estir	mated Cost (1,00	M Dollans	0,12	0.09	0.07
2. Right-of-way			30	127	21				
a. Acquisition	22.					- 6	155	1.05	144
b. Relocation	114	31		90	20				
3. Grade & drain; minor structures					20	9	32	82	87
4. Subbase, base, surfacing, shoulders	- 1,064	222	13	267	56	- (5)	ļ		
5. Interchanges	1,423	318	254	515		67	488	292	223
6. Major Structures over 500'					115	62	662	478	489
7. All other major structures									
B. All other items	130	106		260					
9. Subtotal, lines 3 to 8	216	59	26	187	30	+	32	49	519
D. Construction Engr. & contingencies	2.833	705	293	1,229	38	13	309	197	106
10% of Line 9				1,227	209	142	1,491	1,016	1,397
7. Total cost of construction	283	71	29	123	7.3) 7/
Lines 9 and 10				127	21	14	149	102	140
	3,116	776	322	1,352					140
2. Total Estimate cost, Lines 1, 2 and 11	3,230	807	352	1,559	230	156	1,640	1.118	1,537



OM8 No. <u>04-R-5652</u> Sheet <u>3</u> of <u>5</u> Sheets

STATE Montana

FAP Route No. _____15

Designated Route No. <u>U.S.</u> 87 (U.S. State or County)

Route Letter ____F_

Route Priority Ranking _____06

					Estimate Section	ns			
l tem	F 10	7,00							
Condition Code and Construction Schedule	F-19	F-20	F-21	F-22	F-23	F-24	F-25	F-26	F-27
Section Length, miles (0.1)	6,5	3	0	3	2		3	3	0
Class: Rural, Small Urban or Urbanized (R, S, U)	R	5.0	11.9	8.6	6.0	6.2	1.4	2.8	8,1
Urban Area I.D. (Name and Code)	n.	R		R	R	R	R	R	R
No. of Lanes (Existing - Ultimate)	2-2								
Median (Existing - Ultimate)	U-U	2-2 U-V	2-2	2-2	2-2	2-2	2-2	2-2	2-2
Degree of Access Control (Existing - Ultimate)	N-N	N-N	U-U	U-U	U-U	<u> </u>	U-U	U-U	U- U
Accident Data (Injuries - Fatalities)	2-0	2-0	N-N 2-0	N-N 2-0	N-N	N-N	N-N	N-N	N-N
Traffic - a. Base Year (1972)	600	500	+		5-4	2-3	1-0	2-8	4-0
b. ADT Estimate Design Year (1995)	1.200	900	800	700 1,400	700	1.000	3,700	1,900	1,100
c. DHV Estimate Design Year (1995)	200	120			1,400	2.000	6,800	3,500	2,100
d. D Directional Distribution Factors	55	55	100	180	180	260	880	460	270
e. T Percent Trucks (DHV)	18	18	18	55 18	55	55	55	55	55
f. V/C Ratio (0.00)	0.08	0.07	0,06		18	18	05	08	08
Work Classification			1 0.00	0.12	0.12	0.14	0.31	0.21	0.09
1. Preliminary Engineering	37	36			mated Cost (1,000				
2. Right-of-way		1 0		116		56	10	107	
a. Acquisition	32	32		10					
b. Relocation		 	-	60_		39	15	21	
Grade & drain; minor structures	. 48	68	 	201	- 	-			
4. Subbase, base, surfacing, shoulders	206	174		394	577	140	117	269	
5. Interchanges				497	598	271	178	319	
6. Major Structures over 500'					-				
7. All other major structures				53	200				
8. All other items	111	107		188	105 136	202		394	
9. Subtotal, lines 3 to 8	365	349				131	17	56	
10. Construction Engr. & contingencies		7567		1,132	1,416	542	312	1,038	
10% of Line 9	37	35		113	140				
11. Total cost of construction				117	142	54	31	104	
Lines 9 and 10	402	384		1.245	1 650	100			
2. Total Estimate cost, Lines 1, 2 and 11	471	452		1,421	1,558	596 691	343	1,1/2	



OMB No. 04-R-5652 Sheet 4 of 5 Sheets

STATE Montana FAP Route No. 15 Designated Route No. U.S. 87 Route Letter F

Route Priority Ranking 06 (U.S. State or County)

					Estimate Section	ns			
Item	E 20	n 00							
Condition Code and Construction Schedule	F-28	F-29	F-30	F-31	F-32	F-33	F-34	F-35	F=36
Section Length, miles (0.1)	0	3	0_	3	2	3	3	2	3
Class: Rural, Small Urban or Urbanized (R, S, U)	8, 5. R	6.3	1.7	9.7	7.0	1,1	2.0	0,4	1.3
Urban Area I.D. (Name and Code)	- II	R	R	R	R	H	U	U	Ü
No. of Lanes (Existing - Ultimate)	2-2	-				Billings0100	0100	0100	Billings0100
Median (Existing - Ultimate)	U= U	2-2	2-2	2-2 U-U	2-2	2-4	4-4	2-4	2-6
Degree of Access Control (Existing - Ultimate)	N-N	U- U N- N	N- N		U-U	II-D_	D-D	U-D	U-D
Accident Data (Injuries - Fatalities)	7-1	1-4		N-N	N-N	N-P	N-N	N-P	N-P
Traffic - a. 8ase Year (1972)	1,000	1,000	1-0	9-0	8-2	10-0	6-0	3-0	8-0
b. ADT Estimate Design Year (1995)	2,100		1,000	1,000	1.200		17,000	9,600	9,200
c. DHV Estimate Design Year (1995)	270	2,100 270	2,100	2,100	2,300		33,000	26,400	21,000
d. D Directional Distribution Factors	55	55	270	270 55	300	1,940	3,630	2,900	2.310
e. T Percent Trucks (DHV)	08	08	55 08		55	60	60	60	60
f. V/C Ratio (0.00)	0.11	0,14		08	08	05	05	05	05
Work Classification	0.77	0,14	0,10	0.15	0.17	0.36	0.57	0,39	0.47
1. Preliminary Engineering		84			nated Cost (1,000				
2. Right-of-way		84		129		. 25	21		62
a. Acquisition		41							
b. Relocation		 	_	63		36	21	15	11
3. Grade & drain; minor structures		234	 -		 				
4. Subbase, base, surfacing, shoulders	·	323		361	628	263	174	111	86
5. Interchanges		120	 	500	660	282	335	133	121
6. Major Structures over 500'		 	-						
7. All other major structures	_	120	 	000		-			1 759
8. All other items				37	335				
9. Subtotal, lines 3 to 8		814		212	208	136	91	59	45
10. Construction Engr. & contingencies		014		1,110	1,831	681	600	303	1,71
10% of Line 9		81		111	1.02	10			
11. Total cost of construction		01		111	183	68	60	30	172
Lines 9 and 10		895		1,221	2.017	510			2 222
12. Total Estimate cost, Lines 1, 2 and 11		1,020			2,014	749	660	333	1,882
		1,020		1.413	2,017	810	702	348	1.955



15816

OM8 No. 04-R-5652 Sheet 5__of_5_ Sheets

State_	Montana	FAP	Route	No.

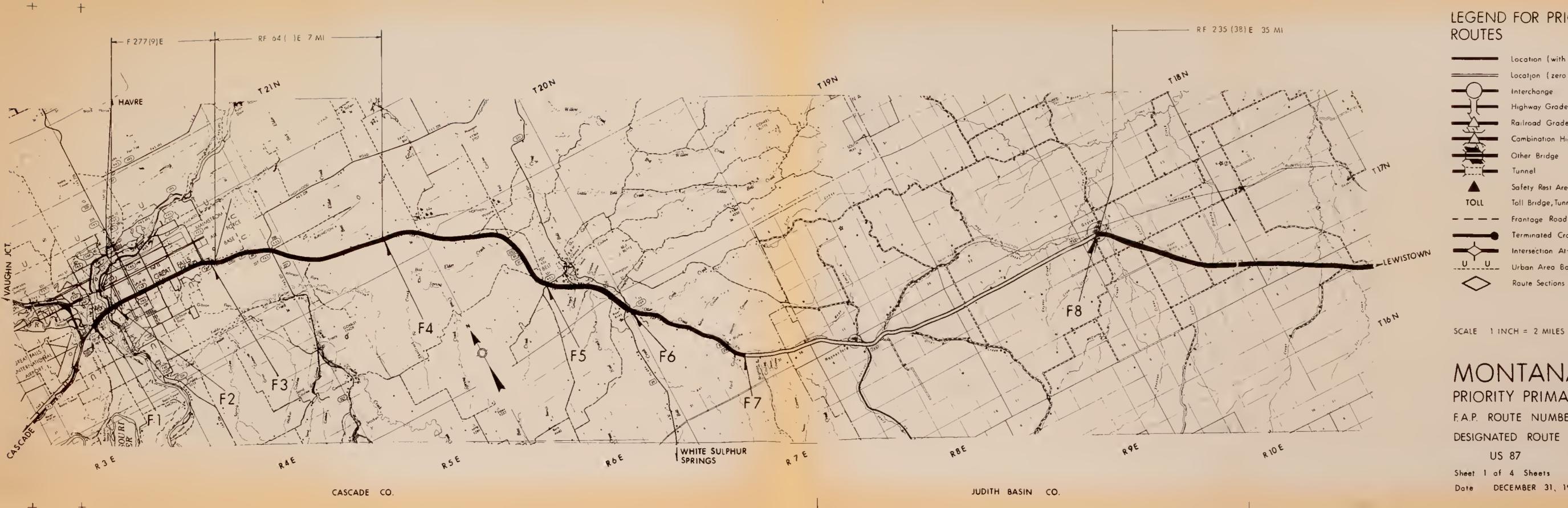
Designated Route No. U.S. 87 (U.S. State or County)

Route Letter F

Route Priority Ranking ______06

ltem	Estimate Section	ns		Subtotal		T
1(01)			Rural	Small Urban	Urbanized	Total fo Route
Condition Code and Construction Schedule					1000.00	
Section Length, miles (0.1)			219.7	2.1	20.0	
Class Rural, Small Urban or Urbanized (R, S, U)			217. /	2.1	10,2	232.0
Urban Area I. D. (Name and Code)			The same of the sa			
No fit is (Existing - Ultimate)						
Mec n sisting - Ultimate)						
Degree of Access Control (Existing - Ultimate)						
Accident Data (Injuries - Fatalities)			2:20/	A STATE OF THE PARTY OF THE PAR		
Traffic - a. Base Year (1972)			158-36	8-0	102-2	268-38
b. ADT Estimate Design Year (1995)			-	Personal Property and the Personal Property and Personal Pro		
c. DHV Estimate Design Year (1995)			- Amendian -			
d. D Directional Distribution Factors			The second second			
Je. T Percent Trucks (DHV)			- Parantagaine		in a second second	14 . 1
f. V/C Ratio (0.00)			- Julia - Jakaranana	<u> </u>		
Work Classification		Estimated Cost (1,000	Dollars)	the second secon	Section of the Section of the Land	
1. Preliminary Engineering			1,611			1 2 2 2
2. Right-of-way			1,011	6	198	1,815
a. Acquisition			3 .60			
b. Relocation			1,450	9	88	1,547
3. Grade & drain; minor structures			11,721	6.00		-
4. Subbase, base, surfacing, shoulders		-	13,484	67 62	699	12,487
5. Interchanges			12,494	0<	1,540	15,086
6. Major Structures over 500'	-					
7. All other major structures			2 500		3,843	3,843
8. All other items			2,798 3,668			2,798
9. Subtotal, lines 3 to 8				13	594	4,275
10. Construction Engr. & contingencies			31,671	142	6,676	38,489
10% of Line 9			2.160			
11. Total cost of construction			3;167	14	668	3,849
Lines 9 and 10			24 020	156	5 344	
12. Total Estimate cost, Lines 1,2 and 11			34,838	156	7,344	42,338
			37,899	171	7,630	45,700





LEGEND FOR PRIORITY PRIMARY

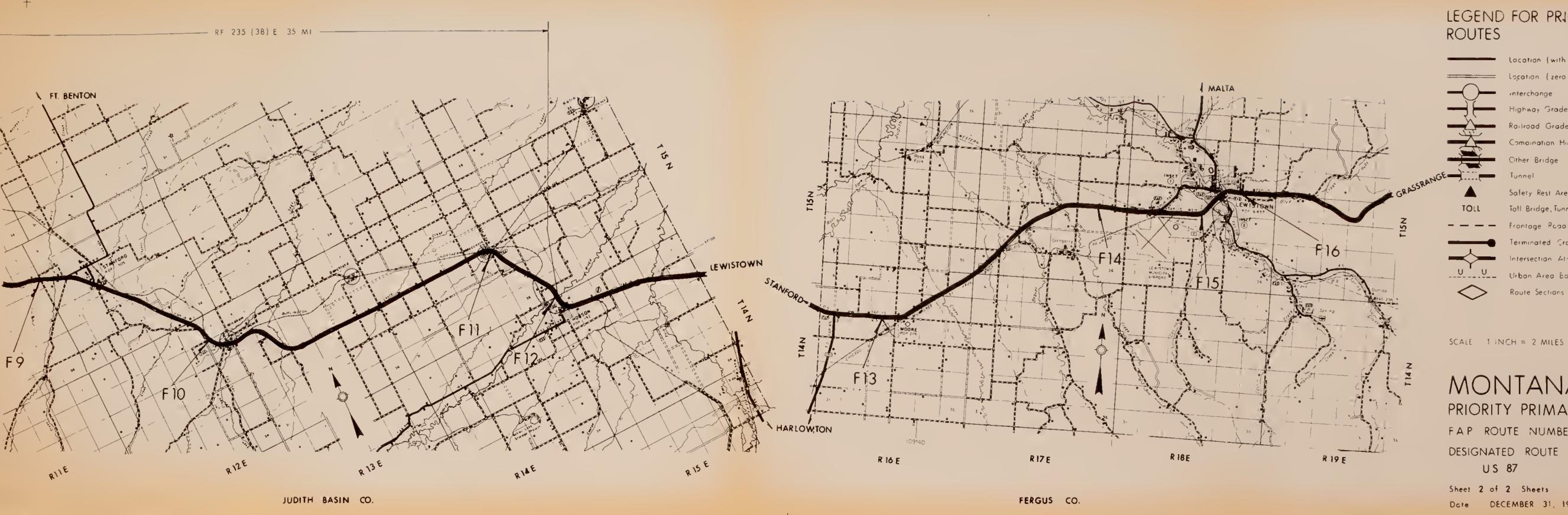
Location (with cost) Location (zero cost) Interchange Highway Grade Separation Na Connection Railroad Grade Separation Cambination Highway - R/R Grade Separation Other Bridge Tall Bridge, Tunnel, Highway ar Combination - Frantage Road Terminated Crass Road Intersection At-Grade U Urban Area Boundary Raute Sections

MONTANA

PRIORITY PRIMARY ROUTE F

F.A.P. ROUTE NUMBER 15

DECEMBER 31, 1973



LEGEND FOR PRIORITY PRIMARY

Lacation (with cast) location (zero cost) Highway Grade Separation-Na Connection Railroad Grade Separation Compination Highway - R/R Grade Separation Other Bridge Safety Rest Area Tall Bridge, Tunnel, Highway or Cambination - - - Frantage Paga Terminated Crass Road Intersection At-Grade U U Urban Area Boundary Route Sections

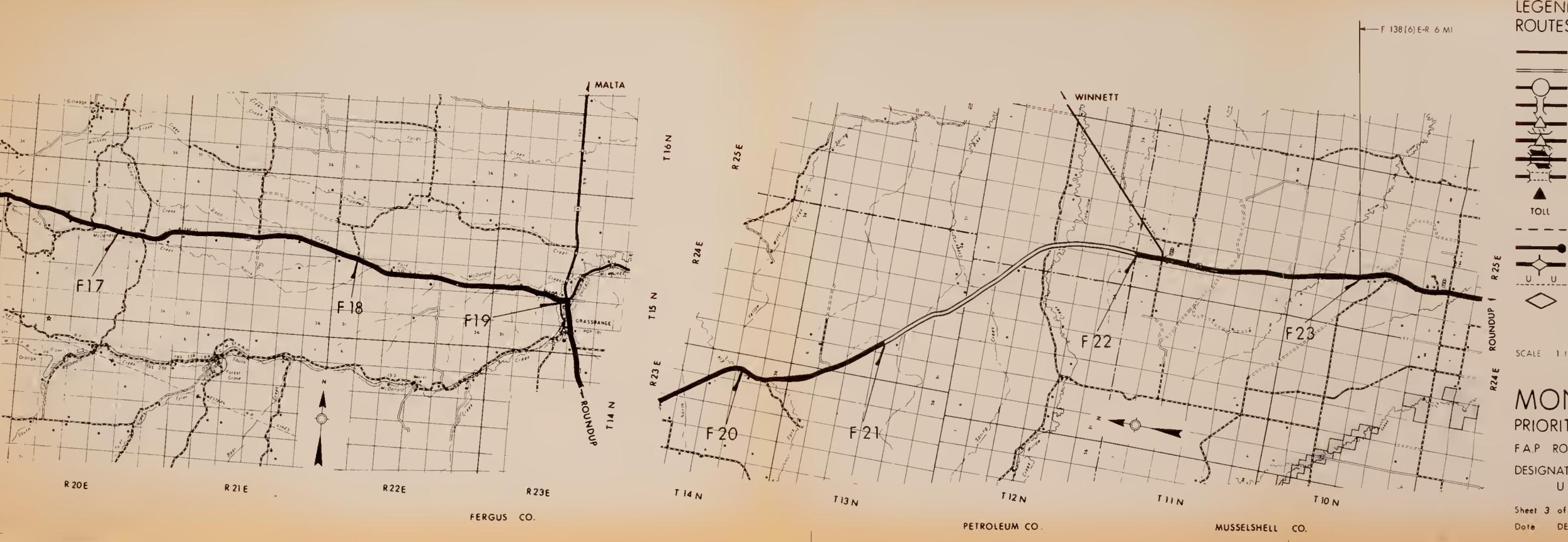
MONTANA PRIORITY PRIMARY ROUTE F

FAP ROUTE NUMBER 15

DESIGNATED ROUTE

Sheet 2 of 2 Sheets

Date DECEMBER 31, 1973



LEGEND FOR PRIORITY PRIMARY ROUTES

Location (with cost) location (zero cast) Interchange Highway Grade Separation Na Connection Railroad Grade Separation Combination Highway - R/R Grade Separation Other Bridge Safety Rest Area Tall Bridge, Tunnel, Highway or Cambinatio Terminated Crass Road Intersection At-Grade Urbon Area Boundary Route Sections

SCALE 1 INCH = 2-MILES

MONTANA PRIORITY PRIMARY ROUTE F

FA.P ROUTE NUMBER 15 & 16

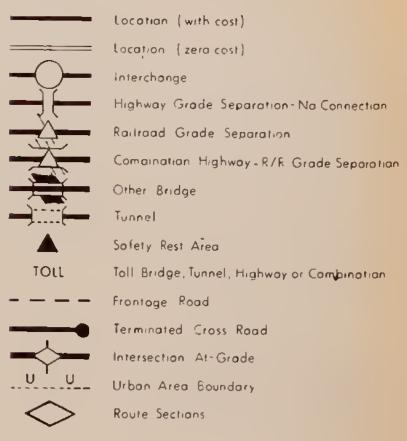
DESIGNATED ROUTE US 87

Sheet 3 of 4 Sheets

Dote DECEMBER 31, 1973



LEGEND FOR PRIORITY PRIMARY ROUTES



SCALE 1 INCH = 2 MILES

MONTANA

PRIORITY PRIMARY ROUTE F

FAP ROUTE NUMBER 16

DESIGNATED ROUTE

US 87

Sheet 4 of 4 Sheets

DECEMBER 31, 1973

STATE ____MONTANA

Priority Primary Route Letter		A			В							
Federal-Aid Route Number(s)		8										
Designated Route Number(s)		U.S.12			5			7				
Route Priority Ranking					J.S.93		[1,8,93				
Accident Data (Injuries - Fatalities)		1			2			3				
		113-28			206-42		1	132-12				
ADT (Route Average)		1,720			2,680			3,460				
Class: Rural, Small Urban and Urbanized	Rural	Small Urban	Urbanized	Rural	Small Urban	Urbanized	Rurat	Small Urban	Urbanized	Rural	Small Urban	Urbanized
Length, Miles	101,1	7.7		108,9	3.1		42.6	5.0				
Work Classification					Estim	ated Cost	(1,000 Dol	llars)				
1. Preliminary Engineering	856	132		2,317	63		799	37				
2. Right-of-way				_ +-> /- +			137	37				
a. Acquisition	924	138		1,769	81		596	1,036				
b. Relocation	69							7 7		+		
3. Grade & drain; minor structures	10,021	1,407		14,575	605		3,617	489	-			
4. Subbase, base, surfacing, shoulders	7,332	1,054		10,075	717		3,717	885				
5. Interchanges												
6. Major structures over 500'								5				
7. All other major structures	1,755			807			1,781					
8. All other items	2,013	248		2,786	169		845	379				
9. Subtotal, lines 3 to 8	21,121	2,709		28,243	1,491		9,960	1,758				
10. Construction Engr., & contingencies 10% of Line 9	2,112	271		2,824	149		996	176				
11. Total cost of construction				, , ,				110				
Lines 9 and 10	23,233	2,980		31,067	1,640		10,956	1,934				
12. Total Estimate Cost, Lines 1, 2 and 11	25,082	3,250		35,153	1,789		12,351	_3,007				
13. Route Total (Top 5% only)		332			942			,358				
14. Route Total (Routes over 5%)					7.4.			1000				
15. Grand Total (Lines 12 and 14)		4 A 4 .	K.	1262	× 45.5		W. 1		4.37		with the	
	***************************************				de la companya della companya della companya de la companya della					And the same	The state of the s	



STATE ____MONTANA

Priority Primary Route Letter		D			E			F		1			
Federal-Aid Route Number(s)		20	<u> </u>		24					-			
Designated Route Number(s)	Mon	tana 16		1/0-				15 & 10		-			
Route Priority Ranking	MOtt			MOT	tana 200			T.S. 87		_	Subtotals		
Accident Data (Injuries - Fatalities)		4			5			6					-
		25-0			150-20			268-38				i	Total
ADT (Route Average)		1,170			1,300			1,476					
Class: Rural, Small Urban and Urbanized	Rural	Small Urban	Urbanized	Rural	Small Urban	Urbanized	Rural	Small Urban	Urbanized	Rural	Small Urban	Urbanized	
Length, Miles	50.3	1.2		148.0			219.7	2.1	10.2	670.6	19,1	10.2	699.9
									-			1 40.0	
Work Classification					Estin	nated Cost	(1,000 Dol	llars)					
1. Preliminary Engineering	24			5,138			1,611	6	198	10,745	243	198	33 30
Right-of-way a. Acquisition										10,747		170	11.186
b. Relocation	66			2,541			1,450	9	88	7,346	1.264	88	8,698
Grade & drain; minor structures										69			69
4. Subbase, base, surfacing, shoulders	920			30,837			11,721	67	699	71,691	2,568	699	74,958
5. Interchanges	1,370			18,807			13,484	62	1,540	54,785	2,718	1,540	59,04
6. Major structures over 500'									-				
7. All other major structures	216			5,588			2.000		3,843		5_	3,843	3,848
8. All other items	223			4,714			2,798	3.0	50.	12,945			12,945
9. Subtotal, lines 3 to 8	2,729			59,946			3,668 31,671	13		14,249	809	594	15,652
10. Construction Engr., & contingencies				77,740			21,071	142	0,676	153,670	6,100	6,676	166,446
10% of Line 9	273			5,995			3,167	14	668	15,367	610	668	16,645
11. Total cost of construction Lines 9 and 10	0.000												
	3,002			65,941			34,838	156	7,344	169,037	6,710	7,344	183,091
12. Total Estimate Cost, Lines 1, 2 and 1113. Route Total (Top 5% only)	3,092			73,620			37,899	171	7,630	187,197	8,217	7,630	203.044
14. Route Total (Routes over 5%)	3,092			TD (00									80 632
15. Grand Total (Lines 12 and 14)	3,072			73,620			37,899	171	7,630				122,412
	* 1777 Children	100 may 100 ma		19,000 11 100000000	25.357	11 11 11 11 11 11 11 11 11 11 11 11 11	00000	Company of the last of the las	MANAGEMENT TO THE RESIDENCE	187,197	8,217	7,630	166,416

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Priority Primary Route Letter		D			Ē			F					
Federal-Aid Route Number(s)		20			24			15 & 1					
Designated Route Number(s)	Mon	tana 16		Mon	tana 200					-			
Route Priority Ranking		4		11011			-	™.S. 27			Subtotals		
Accident Data (Injuries - Fatalities)		25-0			5		_	6					Totals
ADT (Route Average)					150-20			268-38					
		1,170			1,300			1,476					
Class: Rural, Small Urban and Urbanized	Rural	Small Urban	Urbanized	Rural	Small Urban	Urbanized	Rural	Small Urban	Urbanized	Rural	Small Urban	Urbanized	
Length, Miles	50.3	1.2		148.0			219.7	2.1	10.2	670.6	19.1	10,2	699.0
									-				
1. Preliminary Engineering						nated Cost		1013/					
2. Right-of-way	24			5,138			1,611	6	198	10,745	243	198	11,186
a. Acquisition	66			2,541									
b. Relocation	- 00			4,741			1.450	9	88	7,346	1,264	88	8,698
3. Grade & drain; minor structures	920			20 027					-	69			69
4. Subbase, base, surfacing, shoulders	1,370			30,837 18,807			11,721	67	699	71,691	2,568	699	74,958
5. Interchanges				10,007			13,484	62	1,540	54,785	2,718	1,540	59,043
6. Major structures over 500'		-	1						2.040				
7. All other major structures	216			5.588			2,798		3,843	3.0.046	5	3,843	3,848
				71777				3.0	507	12,945	200		12,945
8. All other items	223			4.714		[3 66R	1.7					15,652
9. Subtotal, lines 3 to 8	2,729			<u>4,714</u> 59.946			3,668	13			809	594	
	2,729			59,946			31,671	142	6,676	153,670	6,100	6,676	166,446
Subtotal, lines 3 to 8 Construction Engr., & contingencies									6,676				166,446
9. Subtotal, lines 3 to 8 10. Construction Engr., & contingencies 10% of Line 9 11. Total cost of construction Lines 9 and 10	2,729			59,946			31,671 3,167	142	6,676 668	15,3670	6,100	6,676	16,645
 Subtotal, lines 3 to 8 Construction Engr., & contingencies 10% of Line 9 Total cost of construction Lines 9 and 10 Total Estimate Cost, Lines 1, 2 and 11 	2,729 273 3,002			59,946 5,995 65,941			31,671 3,167 34,838	142 14 156	6,676	15,367 15,367 169,037	6,100 610 6,710	6,676 668 7.344	166,446 16,645 183,091
9. Subtotal, lines 3 to 8 10. Construction Engr., & contingencies 10% of Line 9 11. Total cost of construction Lines 9 and 10 12. Total Estimate Cost, Lines 1, 2 and 11 13. Route Total (Top 5% only)	2,729			59,946			31,671 3,167	142	6,676 668	15,367 15,367 169,037	6,100	6,676	166,446 16,645 183,091 203,044
 Subtotal, lines 3 to 8 Construction Engr., & contingencies 10% of Line 9 Total cost of construction Lines 9 and 10 Total Estimate Cost, Lines 1, 2 and 11 	2,729 273 3,002			59,946 5,995 65,941			31,671 3,167 34,838	142 14 156	6,676	15,367 15,367 169,037	6,100 610 6,710	6,676 668 7.344	166,446 16,645 183,091



